

FIG. 1

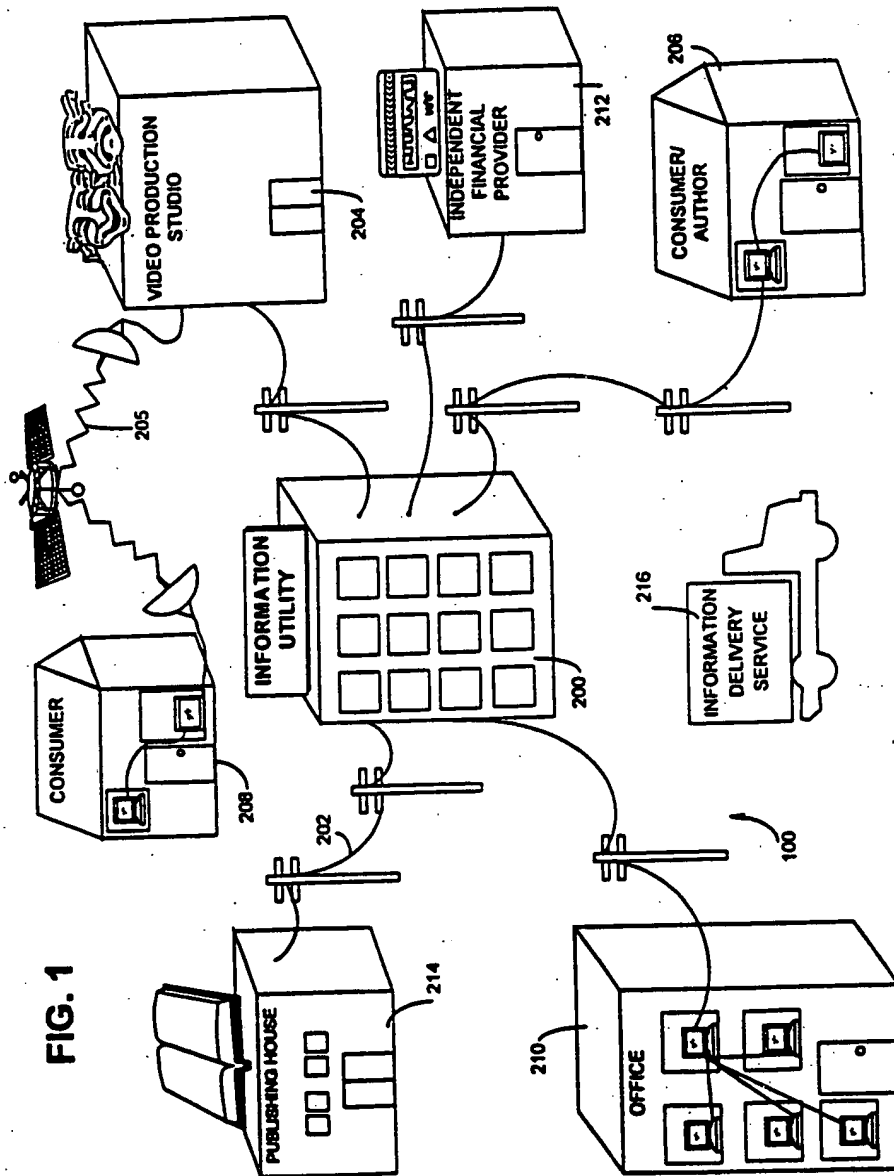


FIG. 1A

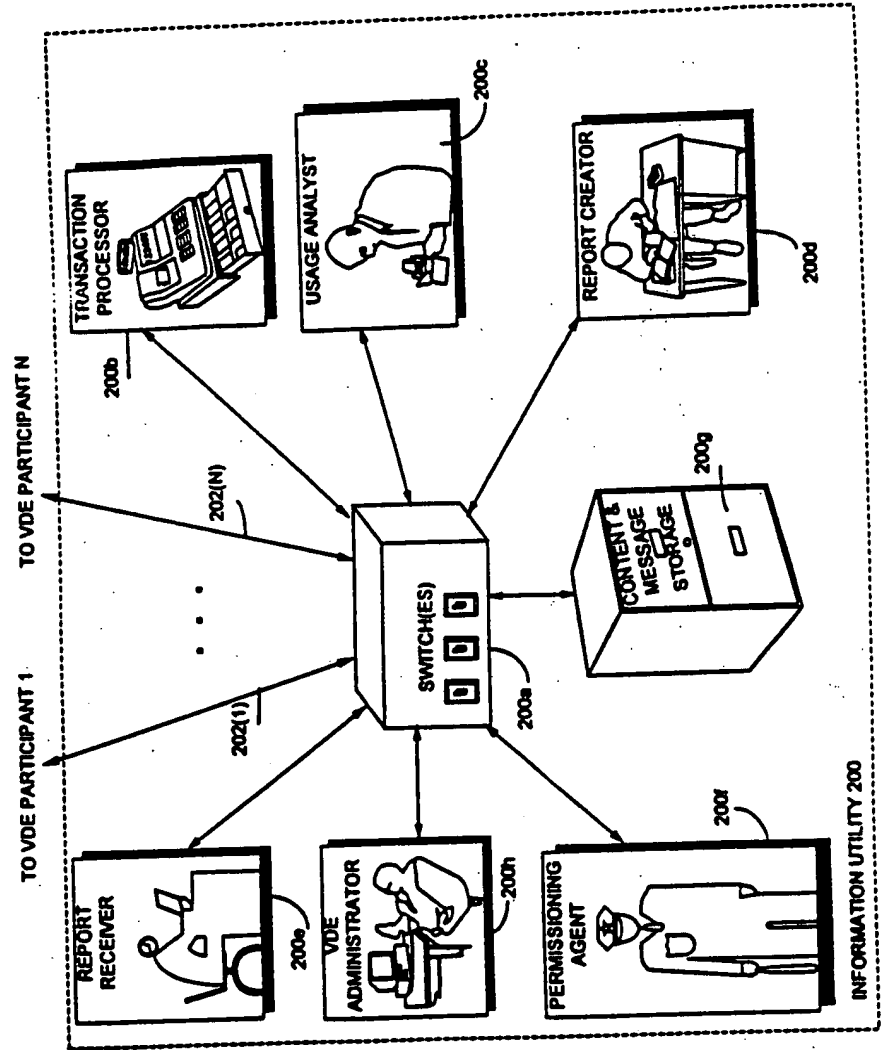
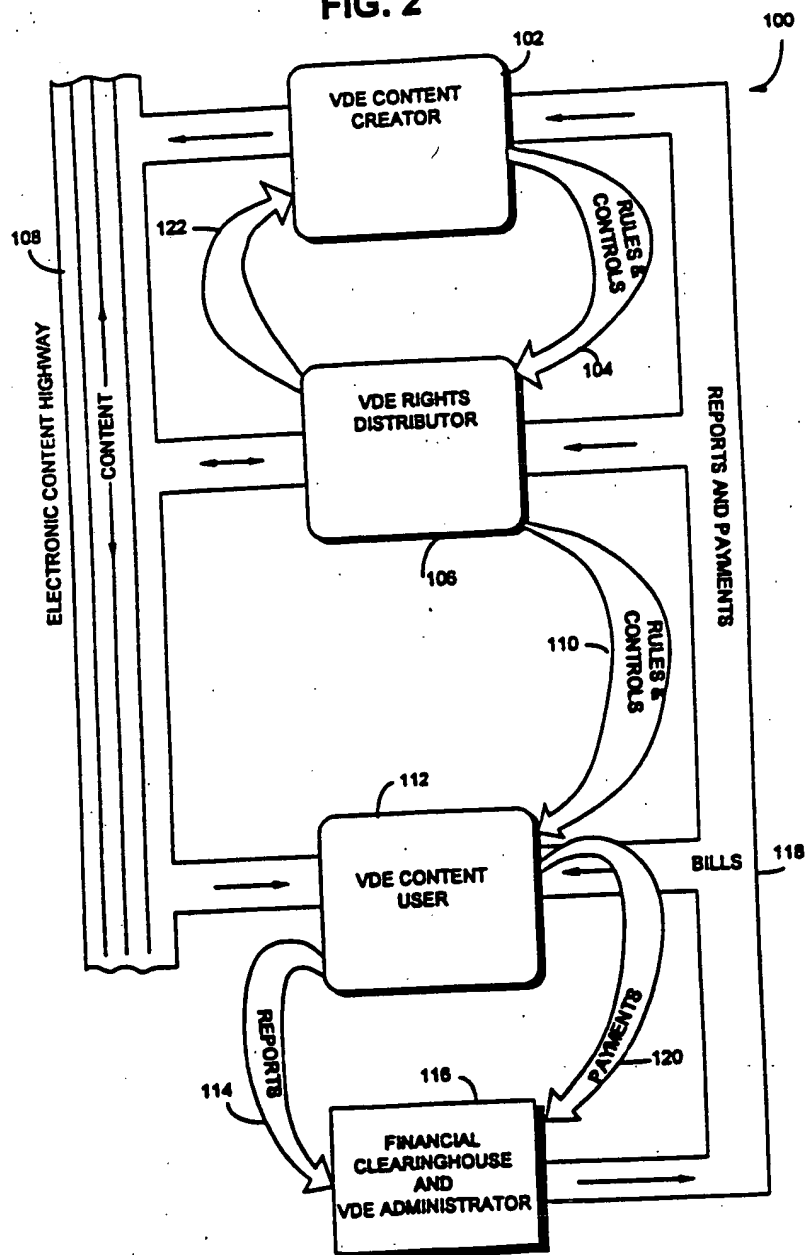


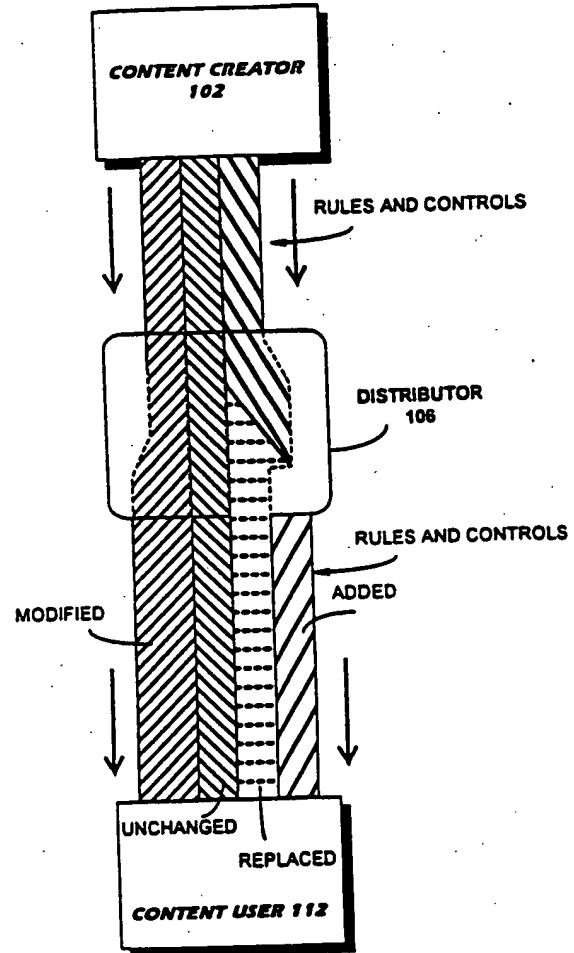
FIG. 1A

FIG. 2



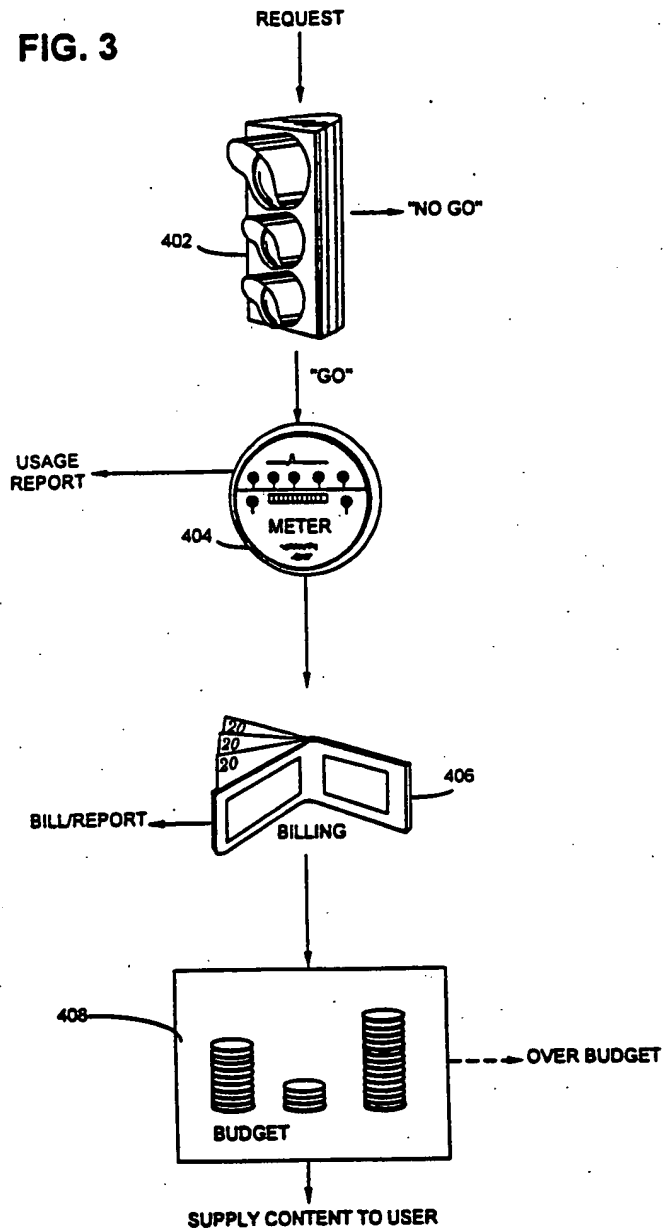
09870801.060101

FIG. 2A



09870801.050101

FIG. 3



09870801.060101

T01090" T0802860

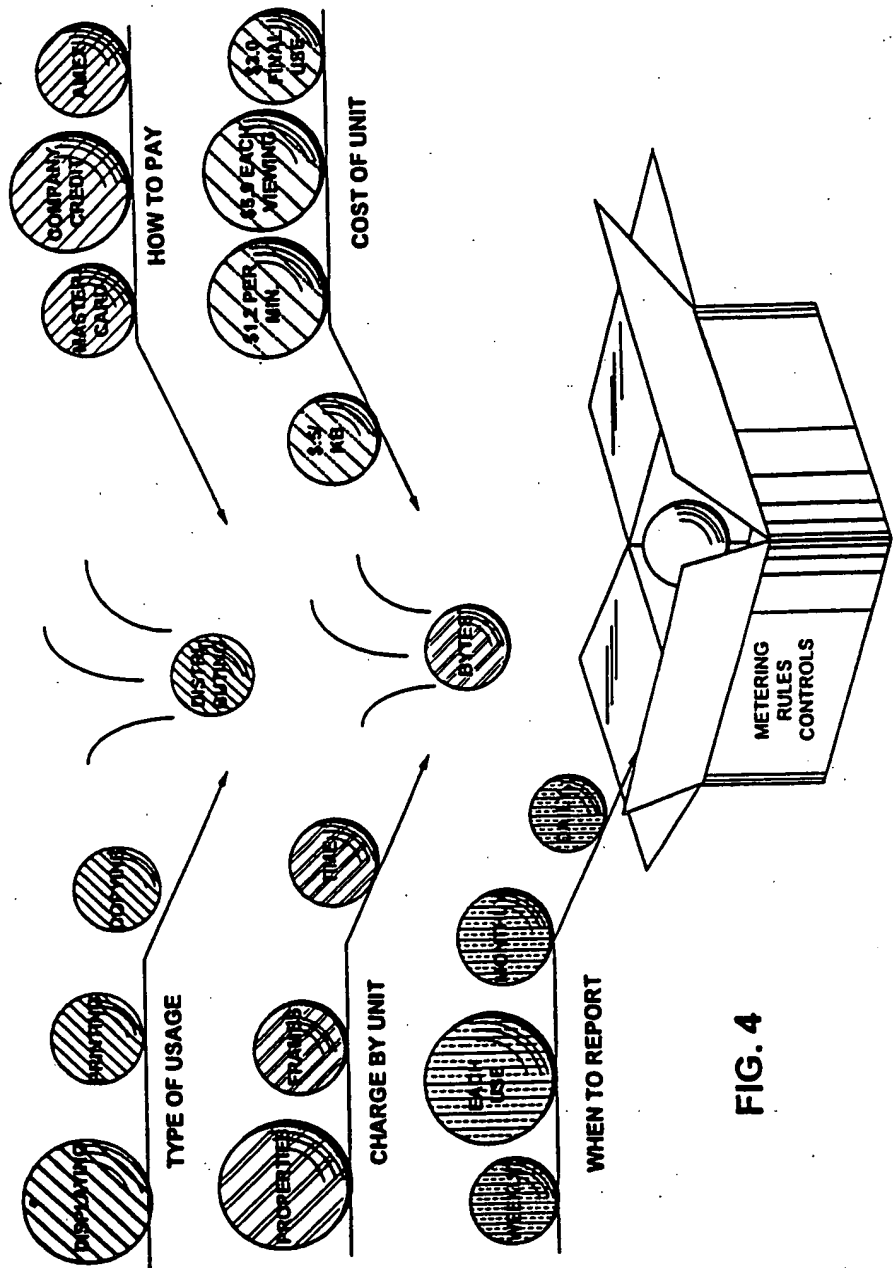
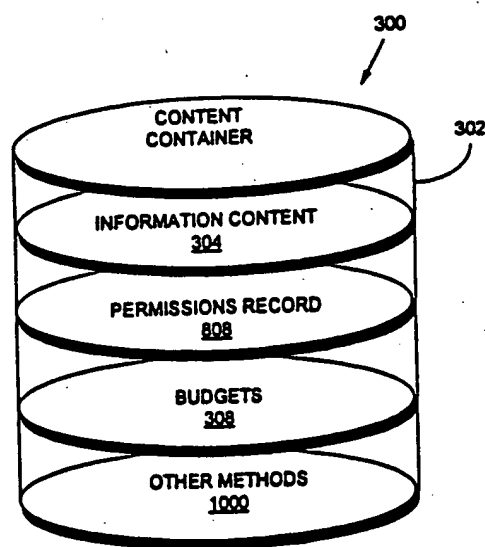


FIG. 4

FIG. 5A



00870801-060101

FIG. 5B

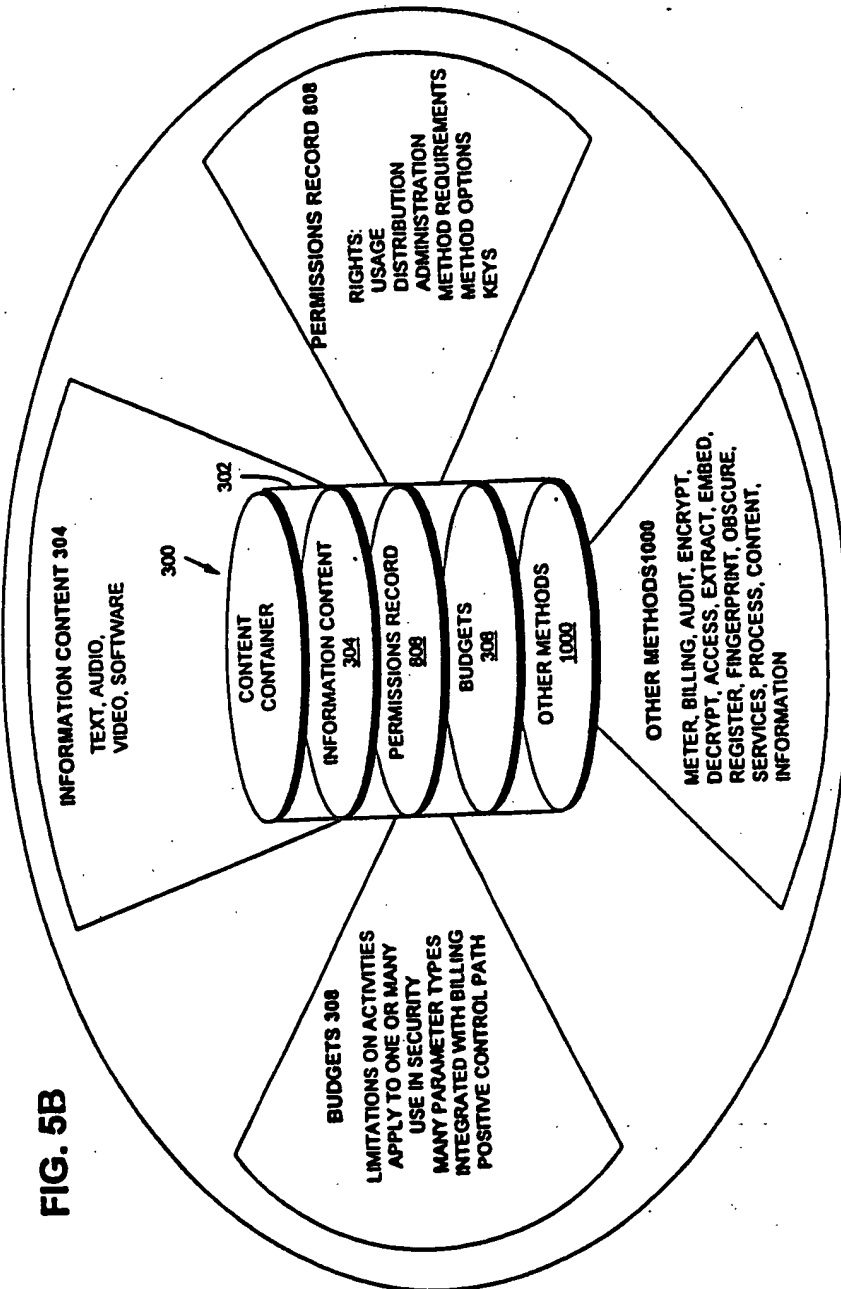
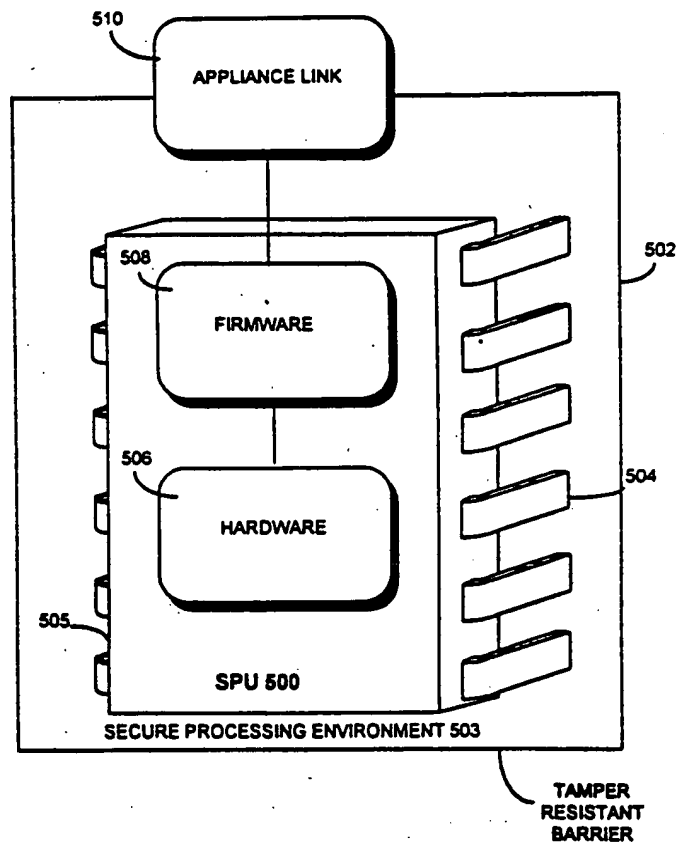




FIG. 6



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FIG. 7

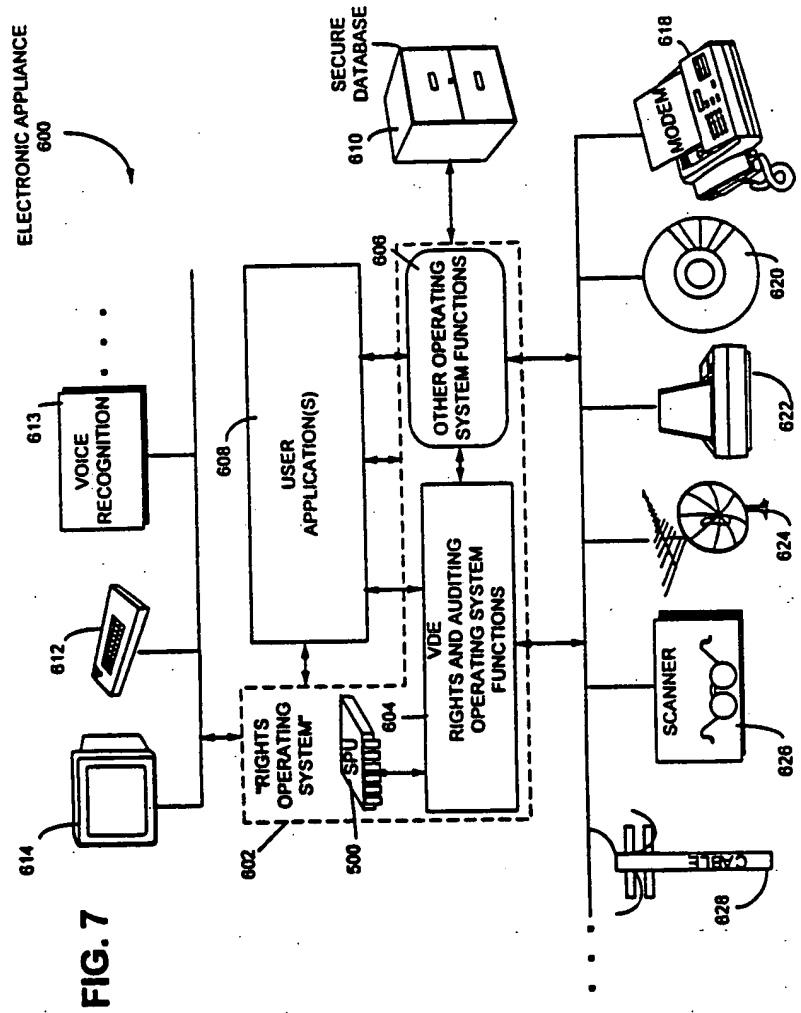
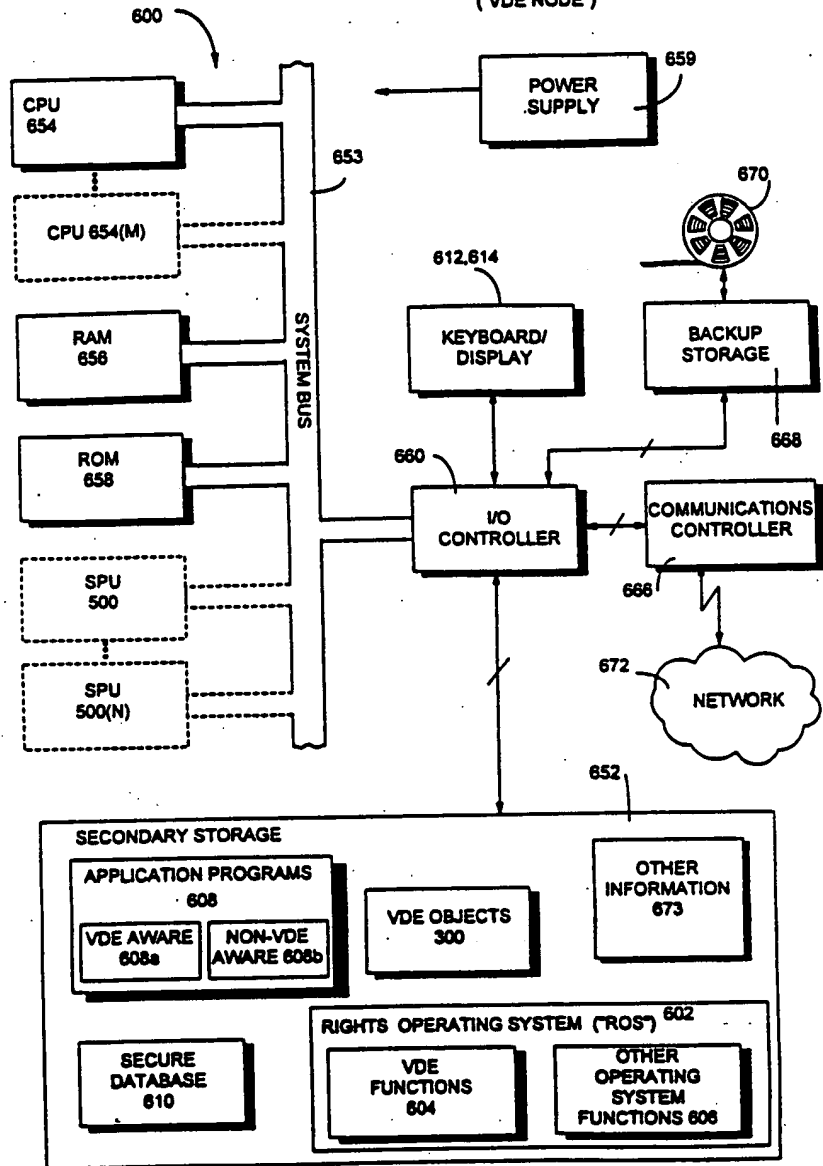


FIG. 8 ELECTRONIC APPLIANCE 600  
(VDE NODE)



00870801.060100

FIG. 9

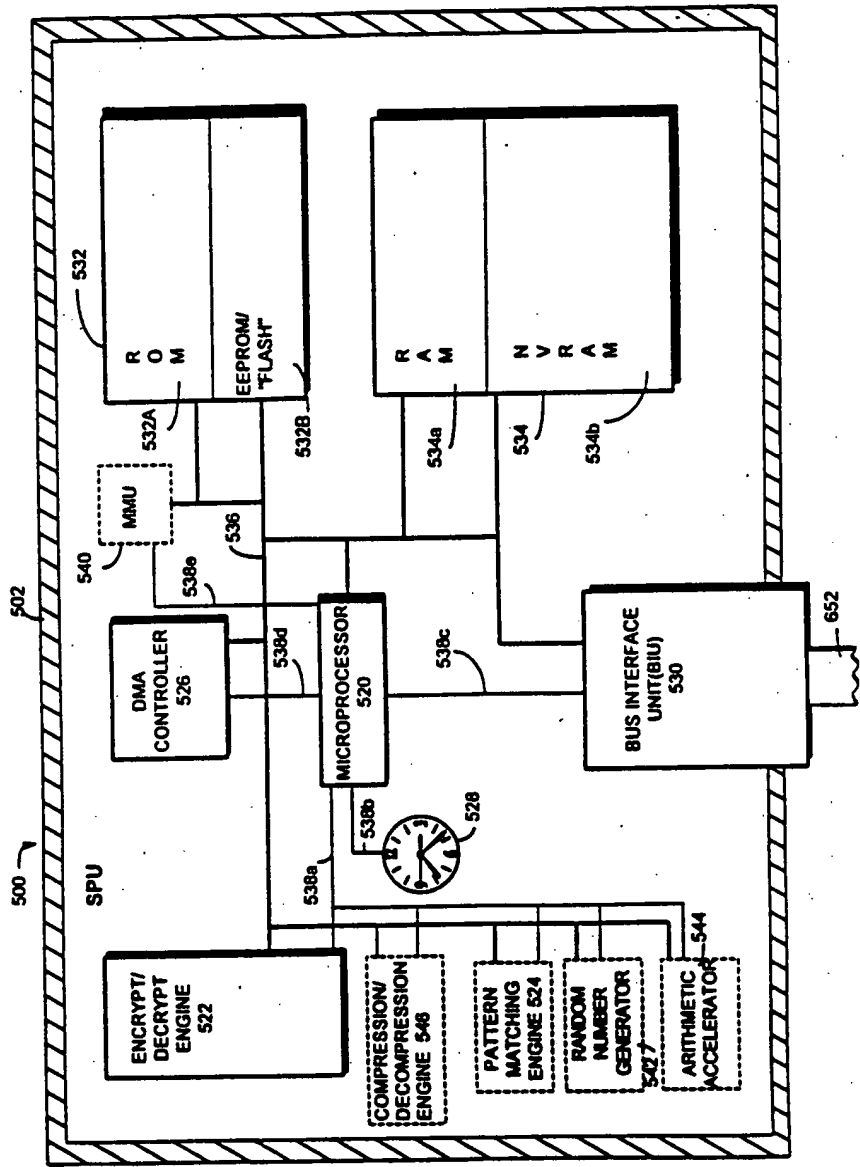
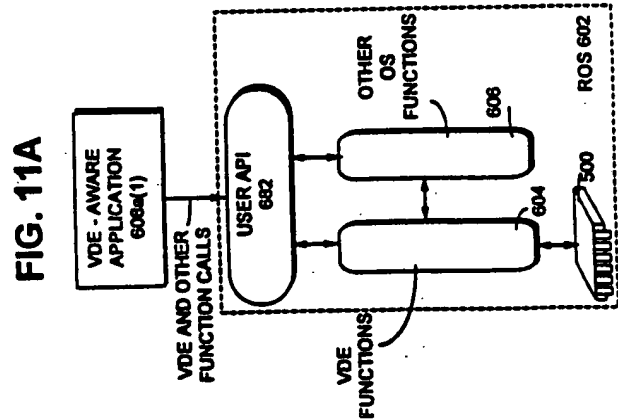
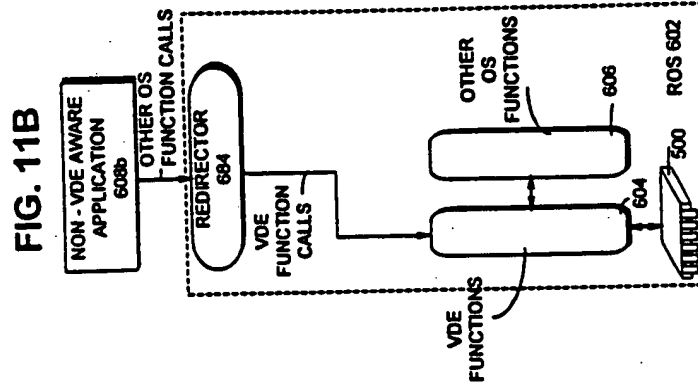
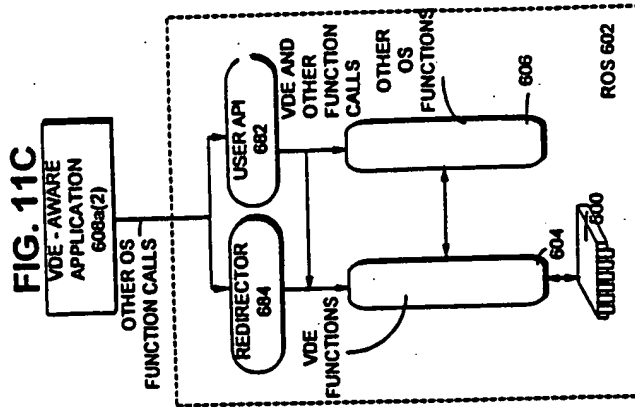


FIG. 9



**VDE SOFTWARE ARCHITECTURE**

T01090-T0802860



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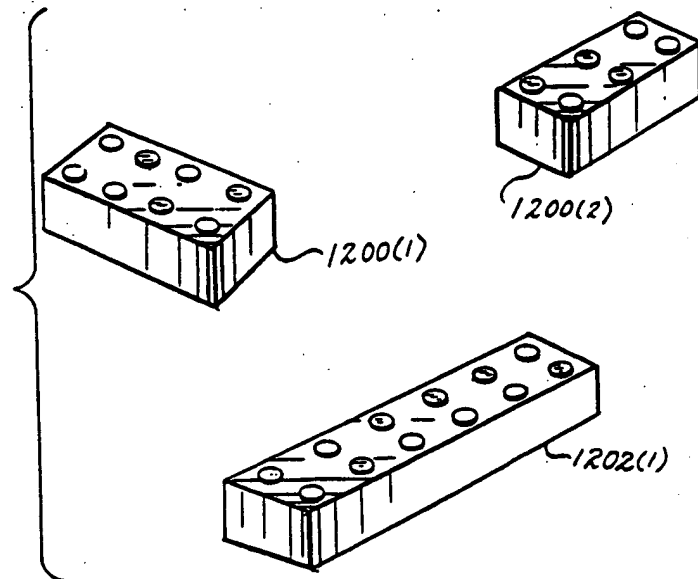


Fig. 11H  
DATA STRUCTURES

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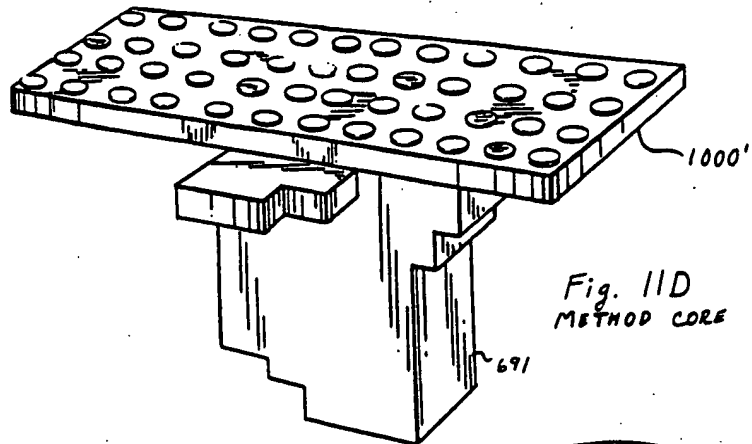


Fig. 11D  
METHOD CORE

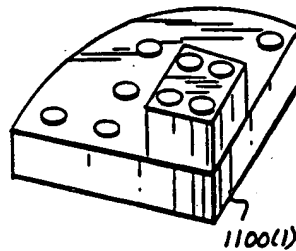


Fig. 11E  
LOAD MODULE  
WITH DTD

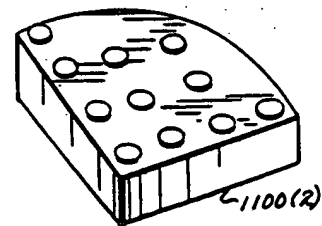


Fig. 11F  
LOAD MODULE

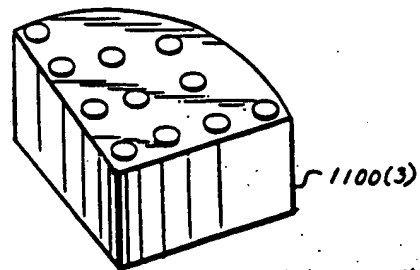
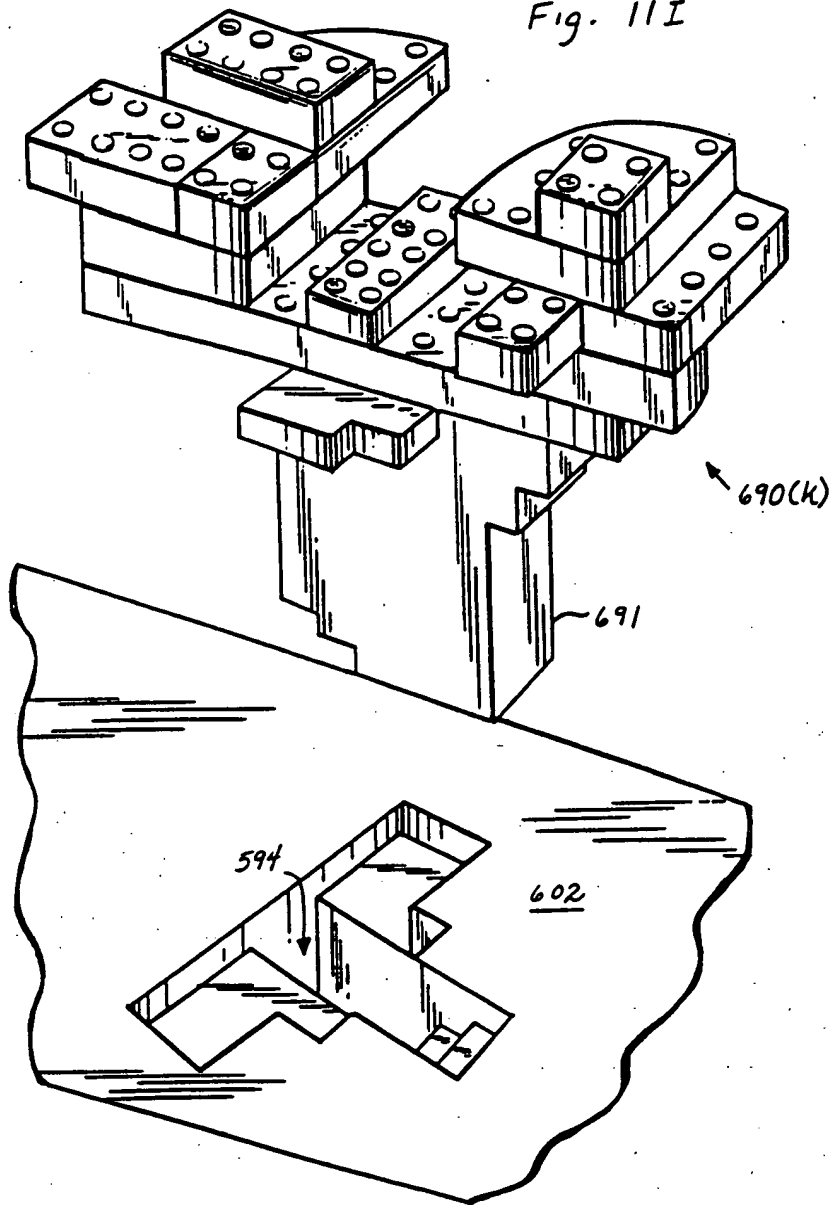


Fig. 11G LOAD MODULE

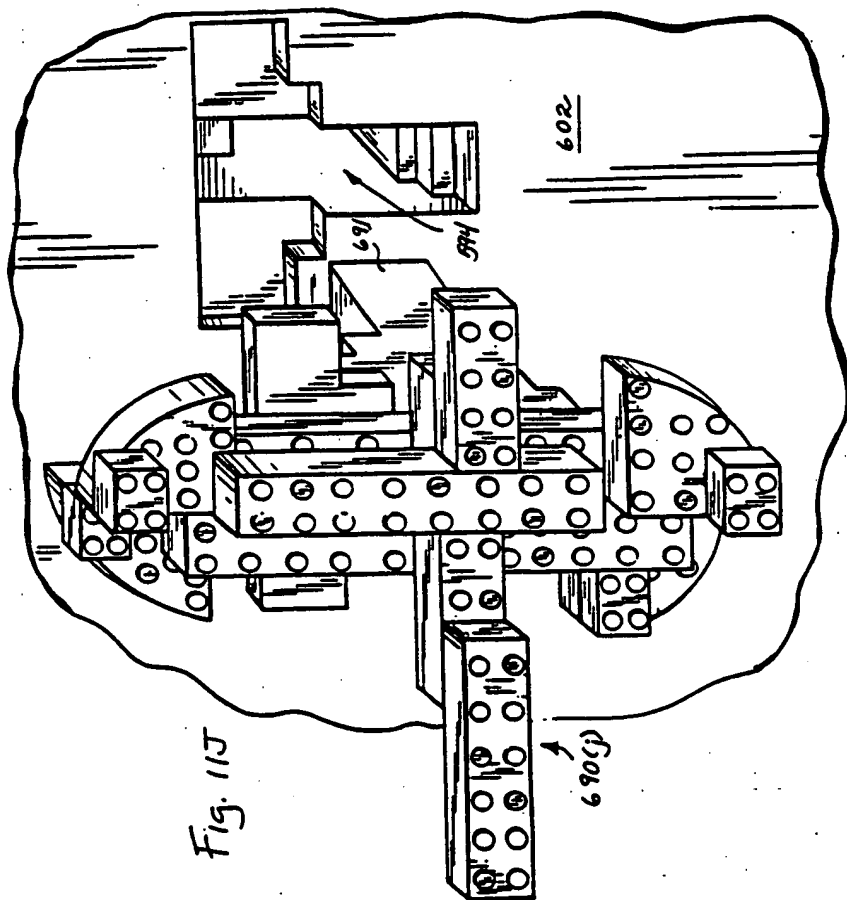


Fig. 11I

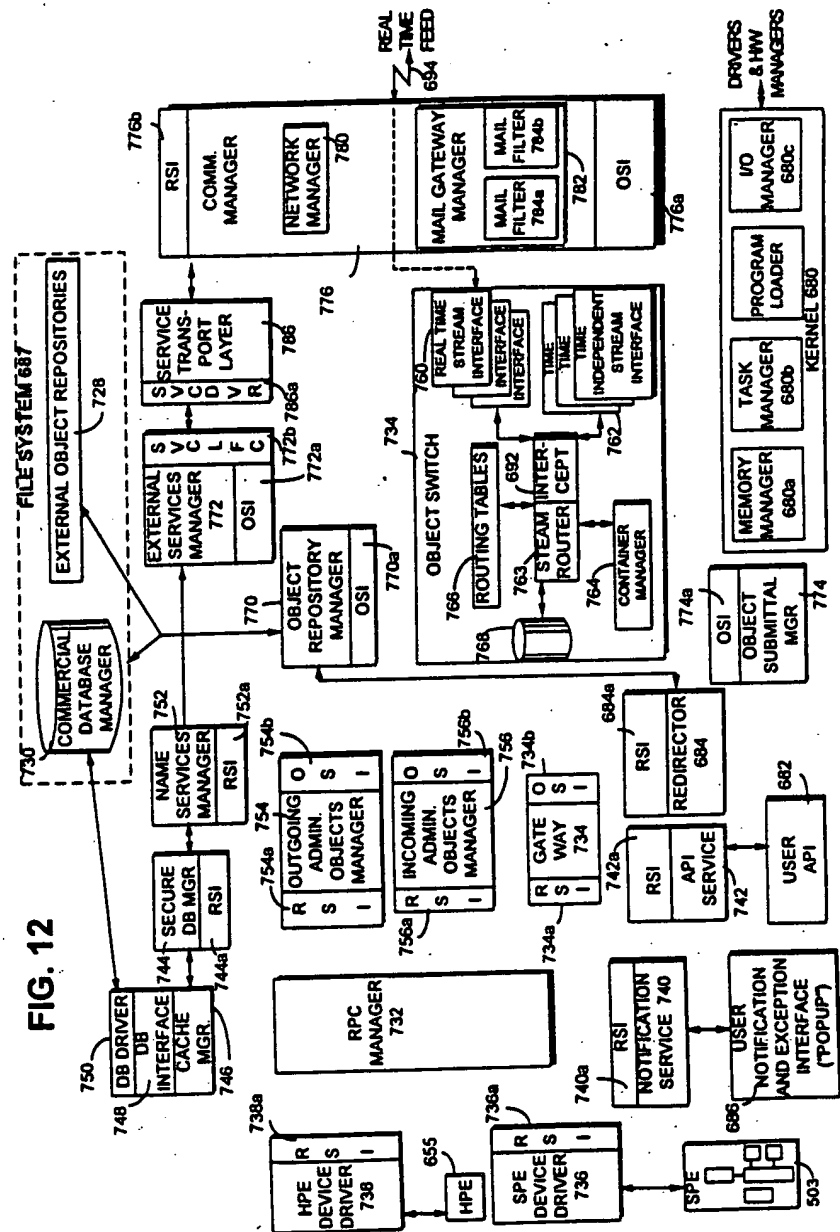


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**FIG. 12**

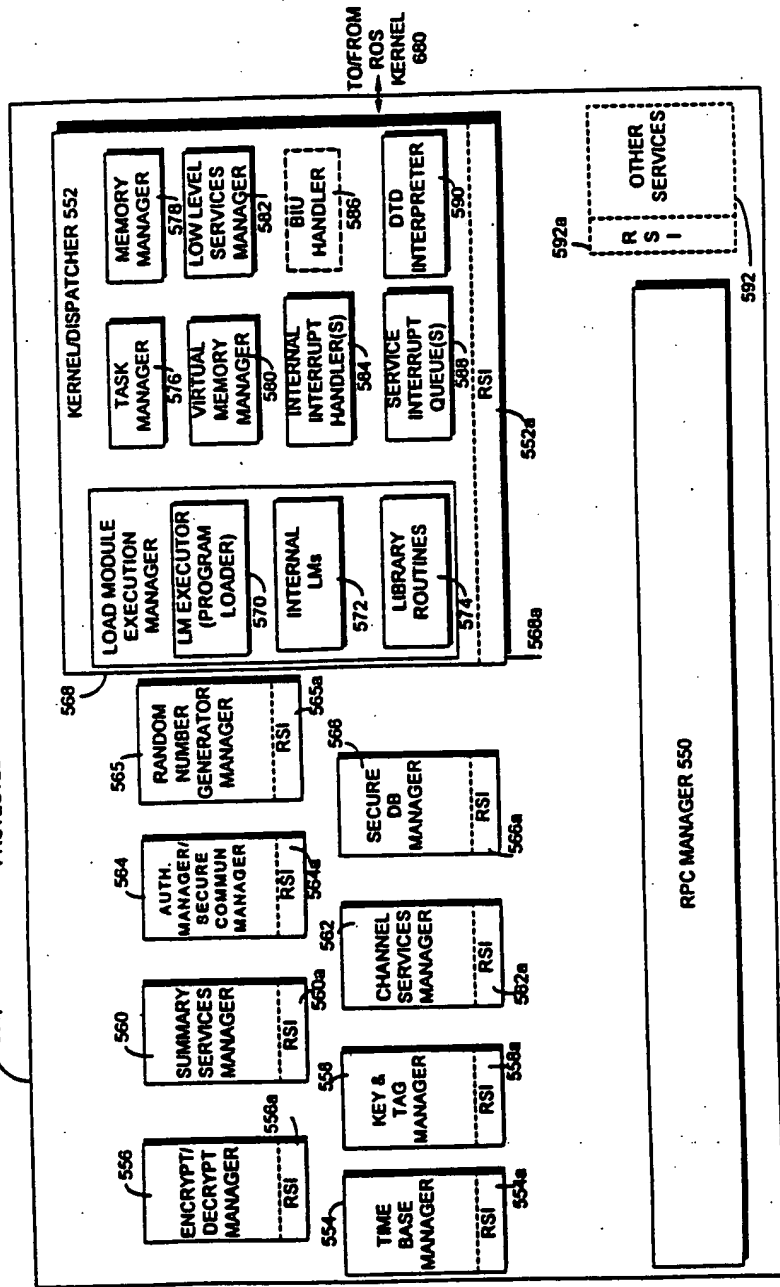


TO 090-10802860

FIG. 13

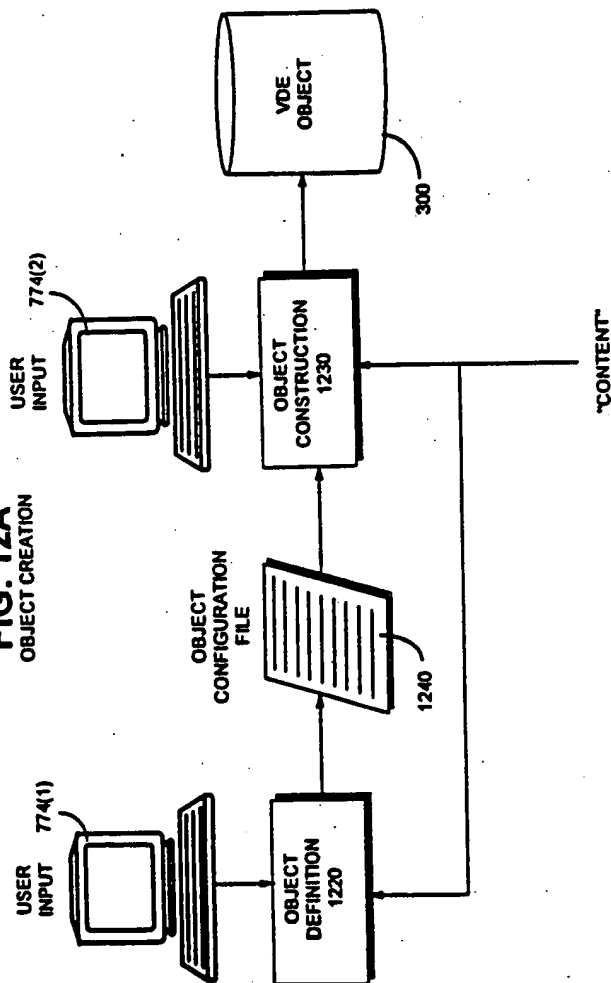
PROTECTED PROCESSING ENVIRONMENT 650

503, 655



T01090-F0802860

**FIG. 12A**  
OBJECT CREATION



09870804-060404

**DEVICE FIRM WIRE LOW LEVEL  
SERVICES 552**

INITIALIZATION
POST
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION
RECOVERY
EEPROM/FLASH MEMORY MANAGER
<b>KERNEL/DISPATCHER 552</b>
INITIALIZATION
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)
BIU HANDLER 586
<b>MEMORY MANAGER 578</b>
INITIALIZATION (SETTING MMU TABLES)
ALLOCATE
DEALLOCATE
<b>VIRTUAL MEMORY MANAGER 580</b>
SWAP BLOCK PAGING
EXTERNAL MODULE PAGING
MEMORY COMPRESS
<b>RPC AND TABLES 550</b>
INITIALIZATION
MESSAGING CODE /SERVICES MANAGER
SEND/RECEIVE
STATUS
RPC DISPATCH TABLE
RPC SERVICE TABLE

**FIG. 14A**

**TIME BASE MANAGER 554**

<b>ENCRYPTION/DECRYPTION MANAGER 556</b>
PK
BULK
<b>KEY AND TAG MANAGER 558</b>
KEY STORAGE IN EEPROM
KEY LOCATOR
KEY GENERATOR
CONVOLUTION ALGORITHM
<b>SUMMARY SERVICES MANAGER 560</b>
EVENT SUMMARIES
BUDGET SUMMARIES
DISTRIBUTER SUMMARY SERVICES
<b>CHANNEL SERVICES MANAGER 562</b>
CHANNEL HEADERS
CHANNEL DETAILS
<b>LOAD MODULE EXECUTION SERVICES 568</b>
<b>AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564</b>
<b>DATABASE MANAGER 566</b>
MANAGEMENT FILE SUPPORT
TRANSACTION AND SEQUENCE NUMBER SUPPORT
SRN/ HASH
DTD INTERPRETER 590
LIBRARY ROUTINES 574
I/O CALLS (STRING SEARCH ETC.)
MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES
TAG CHECKING, MDS, CRC'S
INTERNAL LM'S 572 FOR BASIC METHODS
METER LOAD MODULE(S)
BILLING LOAD MODULE(S)
BUDGET LOAD MODULE(S)
AUDIT LOAD MODULE(S)
READ OBJECT LOAD MODULE(S)
WRITE OBJECT LOAD MODULE(S)
OPEN OBJECT LOAD MODULE(S)
CLOSE OBJECT LOAD MODULE(S)

SPU ROM/EEPROM/FLASH 532

FIG. 14B

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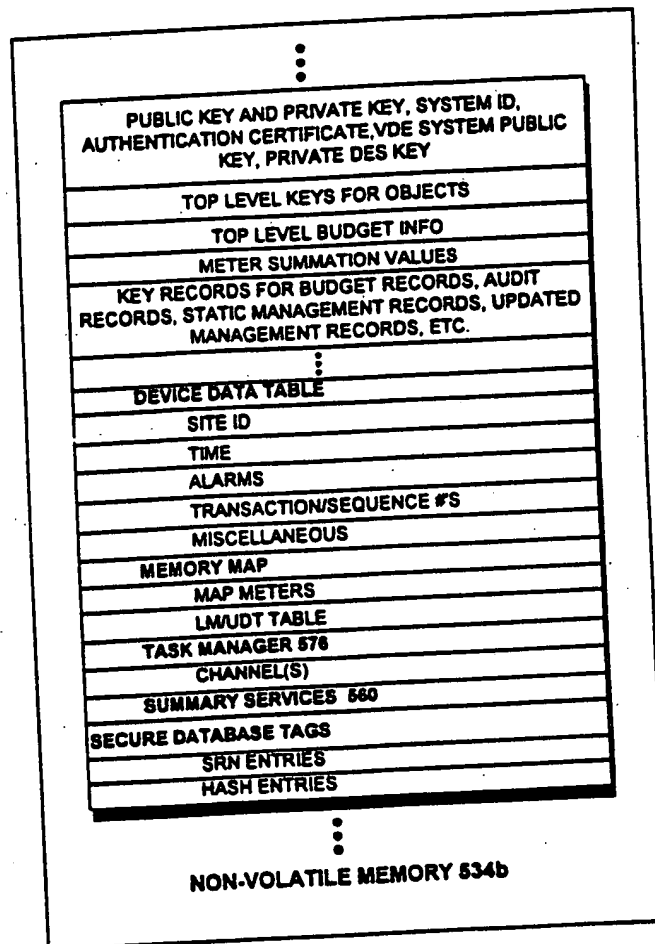
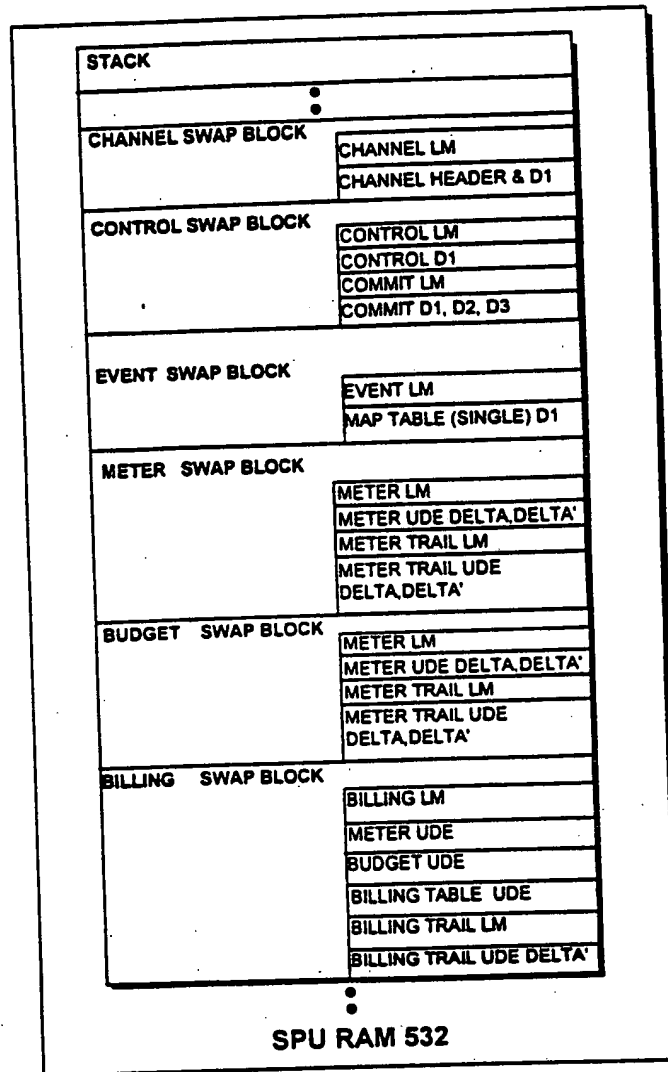


FIG. 14C

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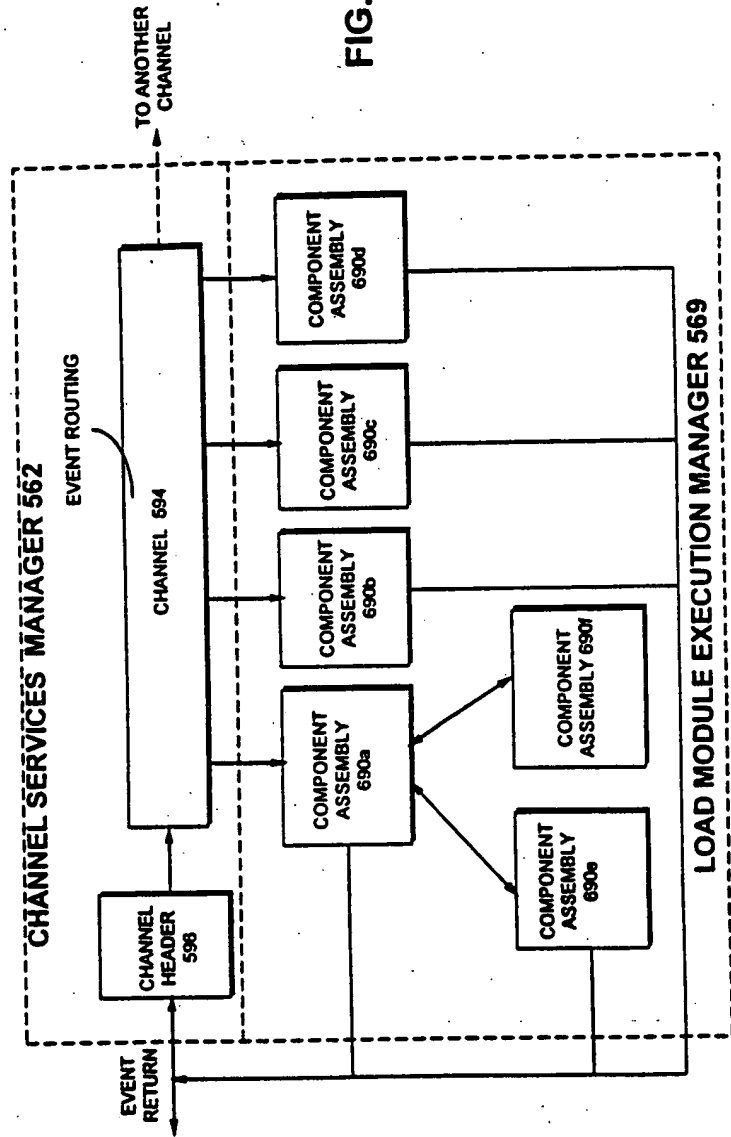
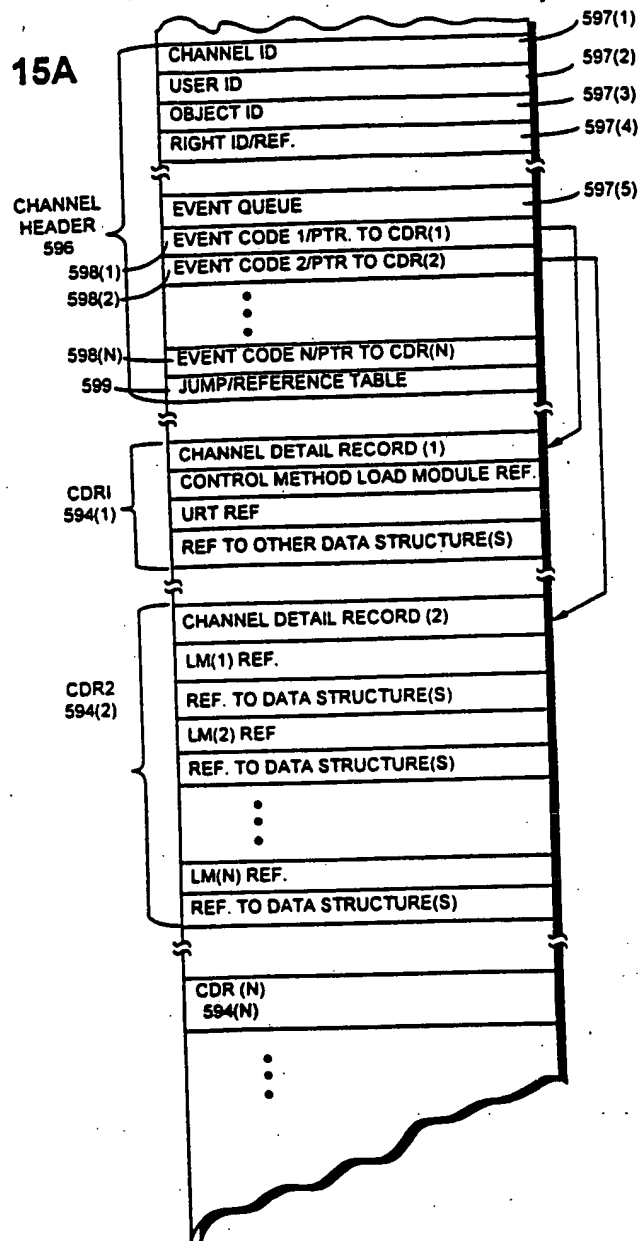
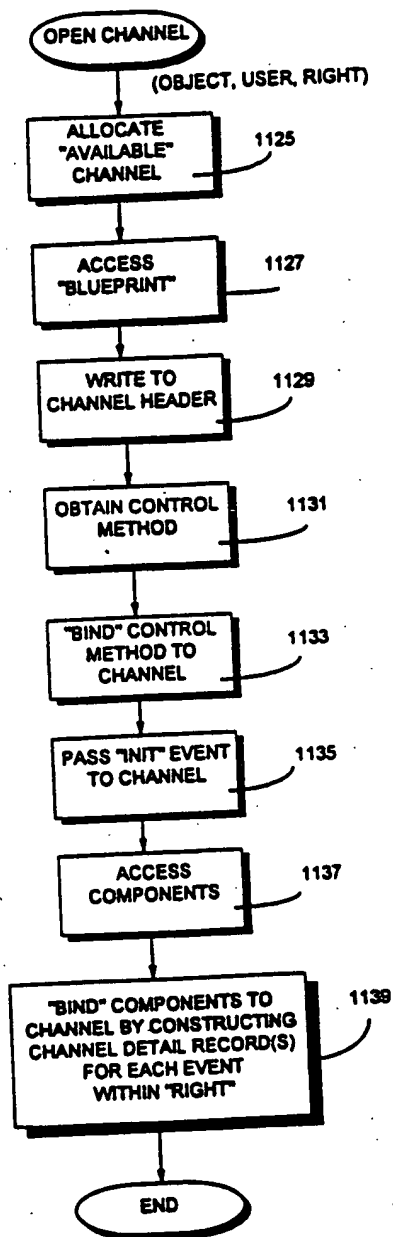


FIG. 15A



001090" 10807860

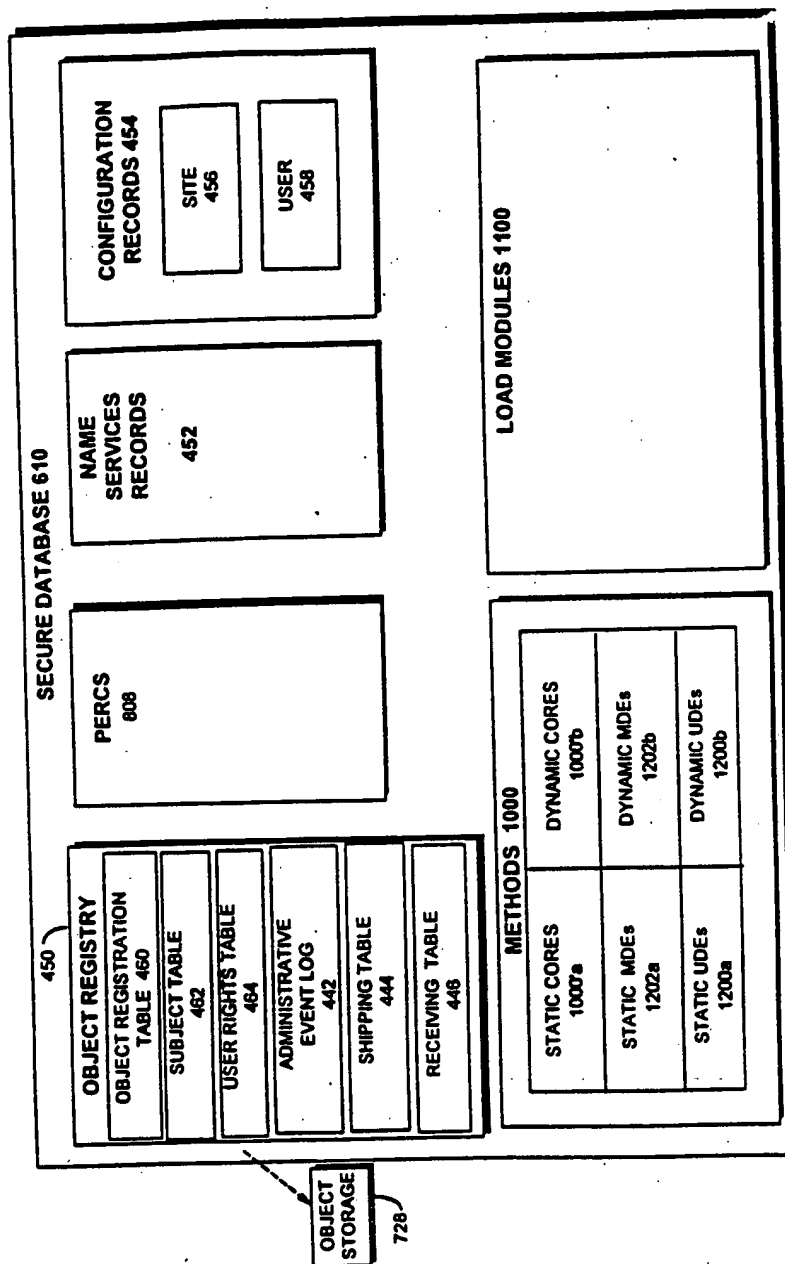
FIG. 15B



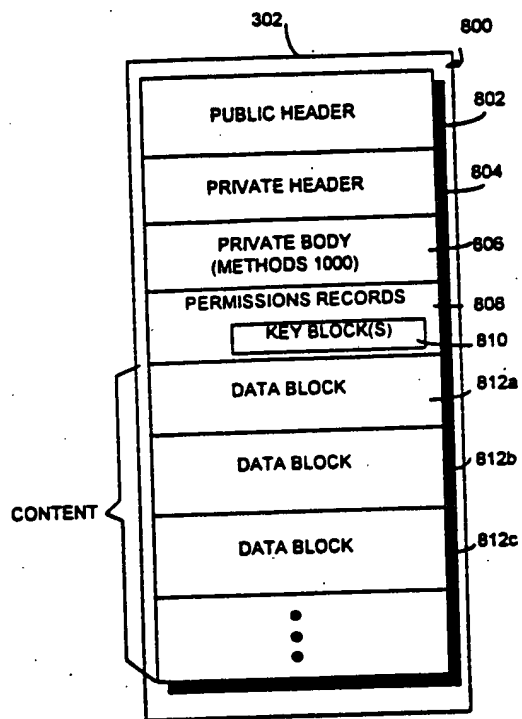
09870801-060101

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FIG. 16



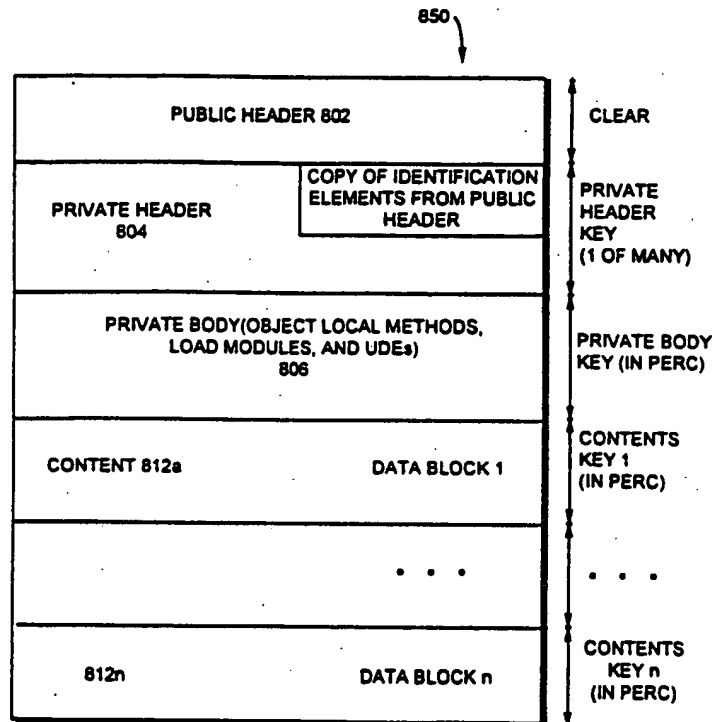
09870801-060101



LOGICAL OBJECT

FIG. 17

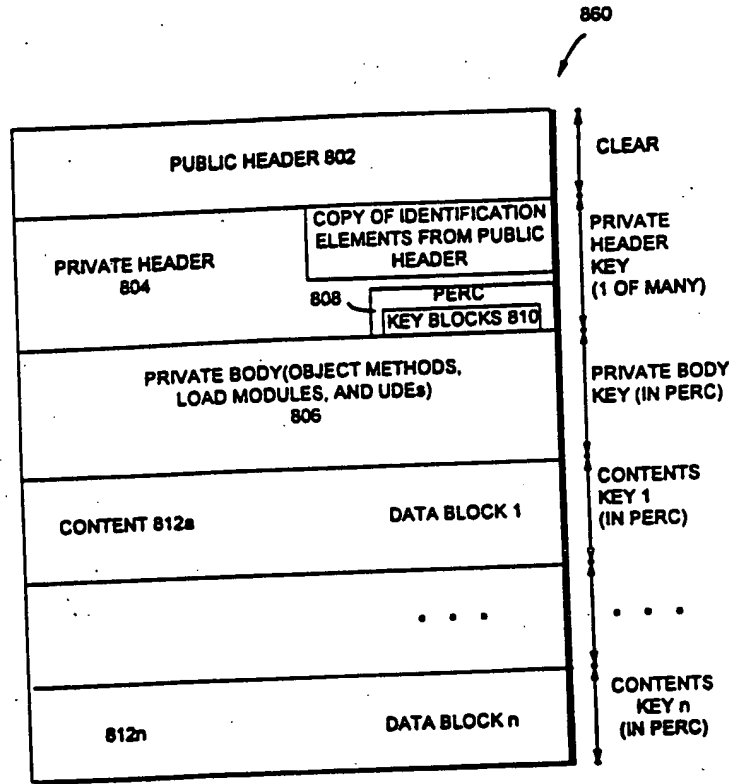
09870801-060101



STATIONARY OBJECT

FIG. 18

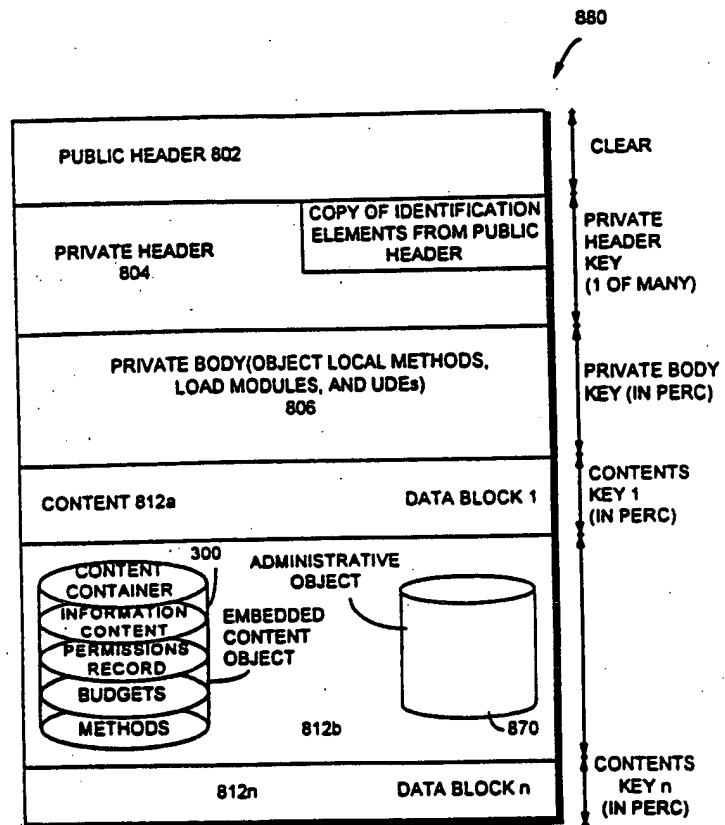
0870801-060101



TRAVELING OBJECT

FIG. 19

0870801-060101

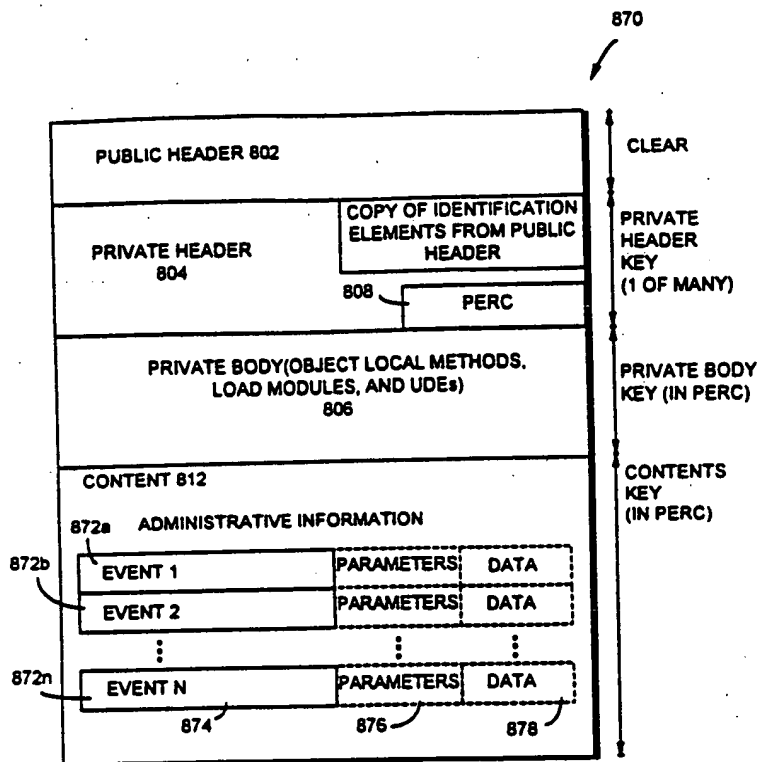


CONTENT OBJECT

FIG. 20



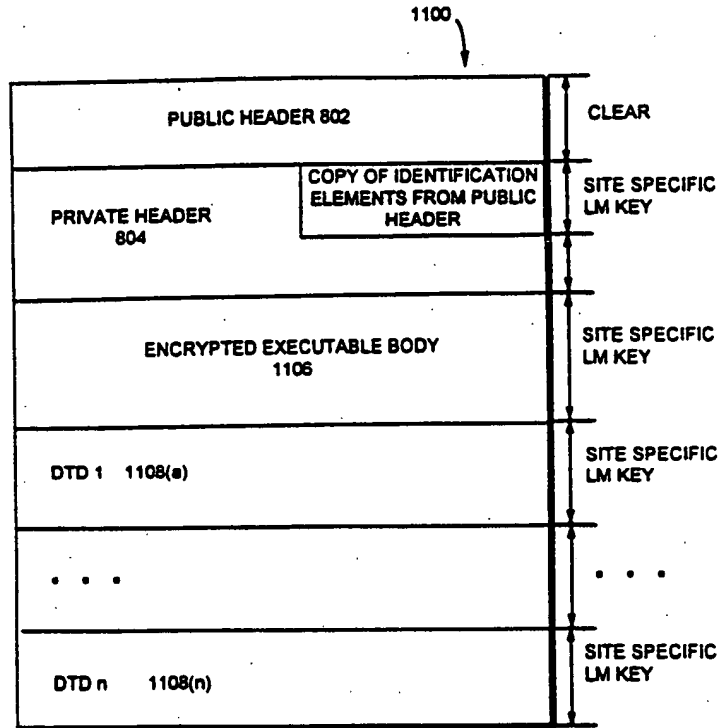
09870801-060101



ADMINISTRATIVE OBJECT  
**FIG. 21**



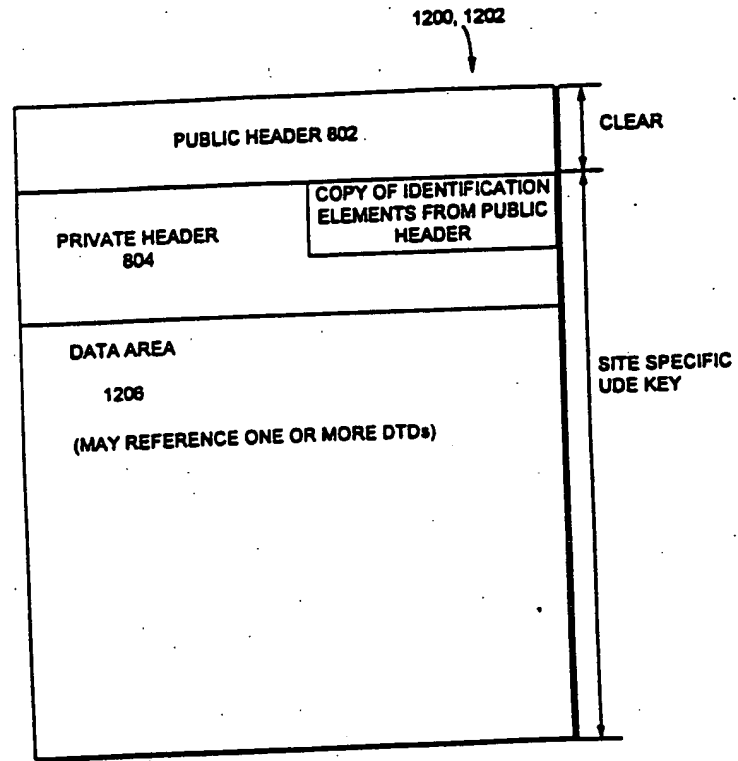
FIG. 23



LOAD MODULE

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FIG. 24



UDE (MDE)

09870801-060101

FIG. 25A

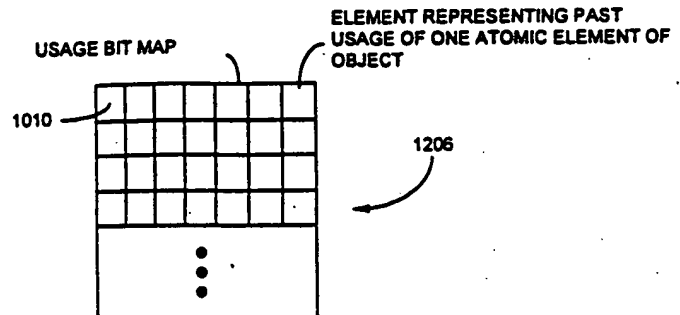


FIG. 25B

TIME

JAN. FEB. MAR. APRIL MAY JUNE

RECORDING  
NUMBER

1	0	2	0	1	0	0
2	0	0	5	10	3	0
3	0	3	2	1	0	
4	0	0	0	1	0	
5	0	0	1	0		
6	0	0	0			

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FIG. 25C

FOI90-FO802860

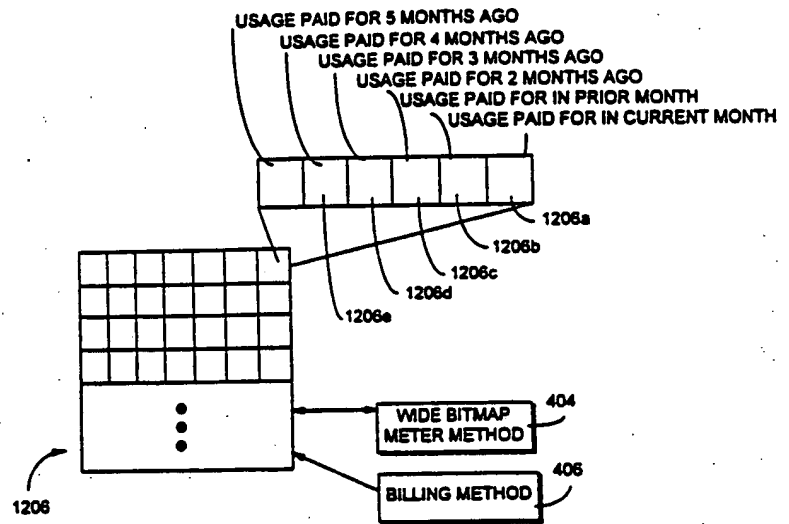


FIG. 25C

09870801.060101

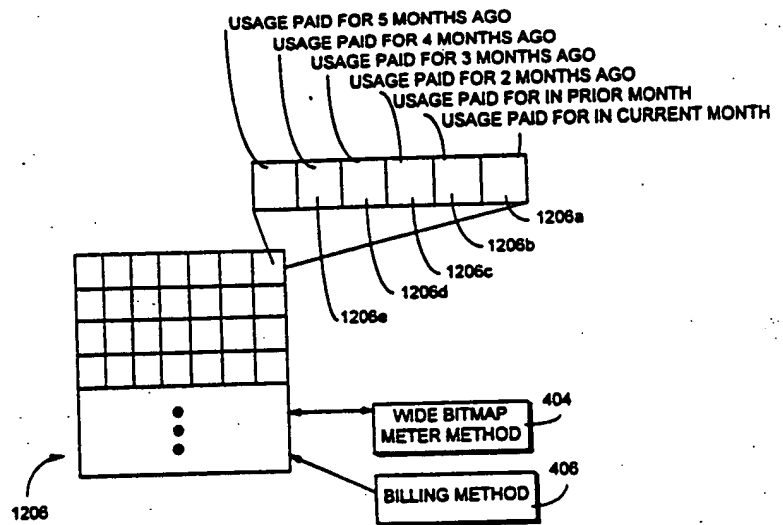
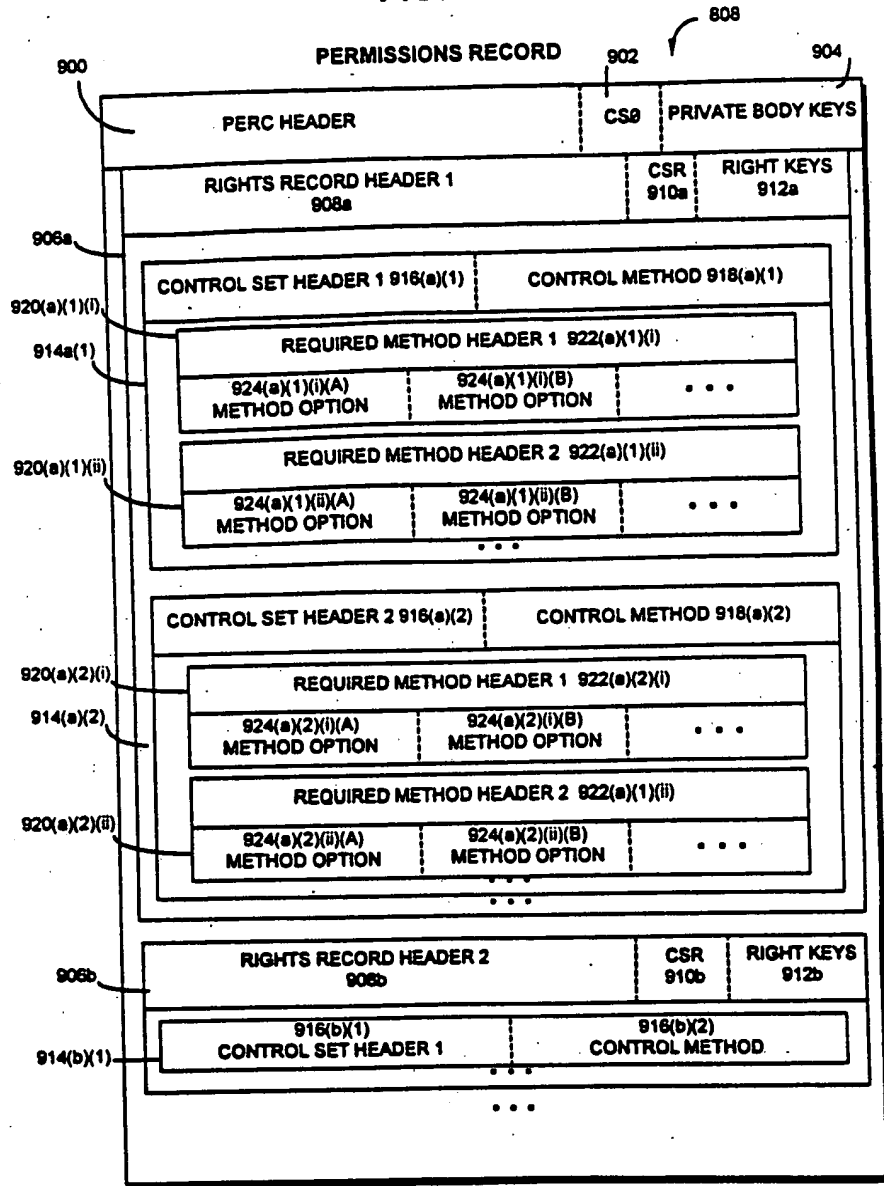


FIG. 26

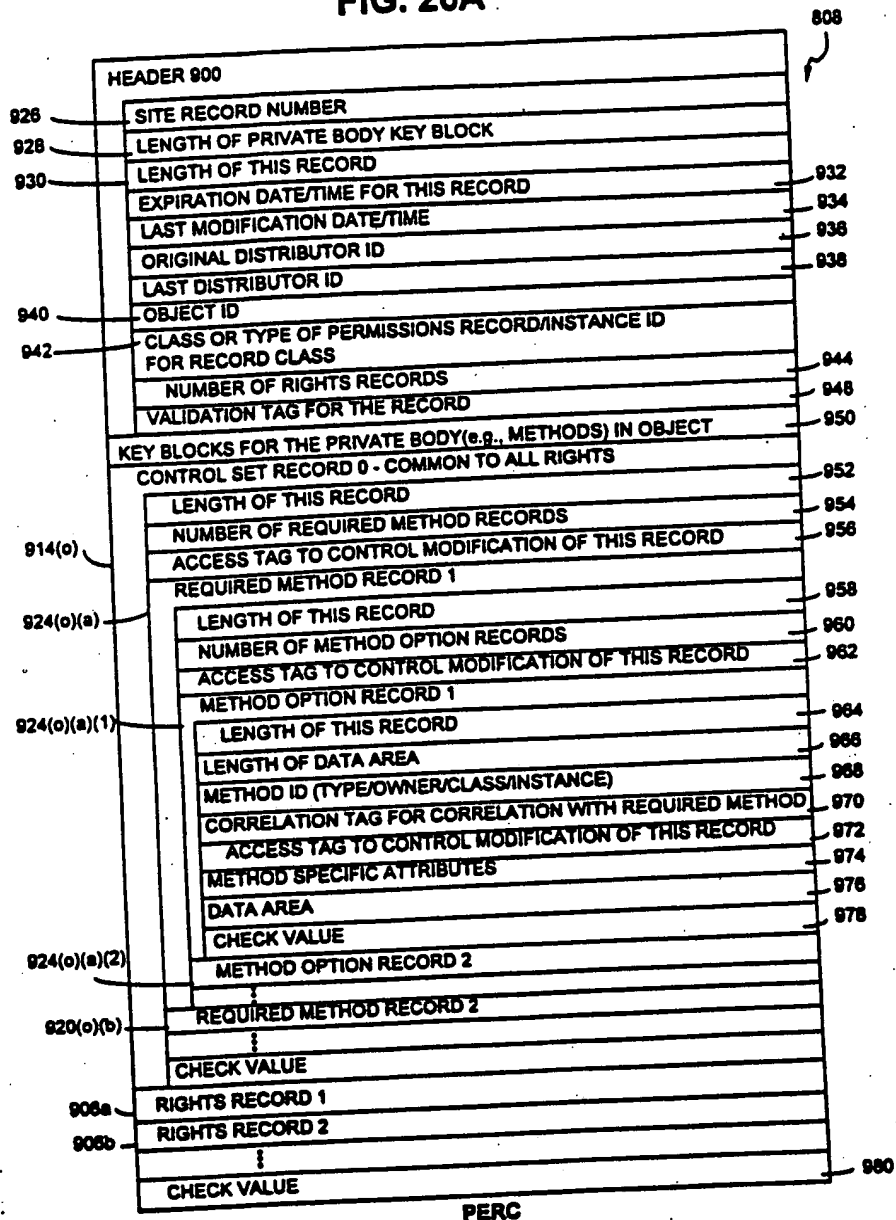


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FIG. 26A

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906a

FIG. 27  
SHIPPING TABLE

09870801-060101

HEADER 444A	444A(1)		SITE RECORD NUMBER	444
			USER (GROUP) ID	444A(2)
			REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD	444A(3)
			REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD	444A(4)
			REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD	444A(5)
			REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD	444A(6)
			VALIDATION TAG FROM NAME SERVICES RECORD	444A(7)
			VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S)	444A(8)
			CHECK VALUE	444A(9)
SHIPPING RECORD 445(1)			SITE RECORD NUMBER	445(1)(A)
			FIRST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(B)
			LAST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(C)
			ACTUAL DATE/TIME OF COMPLETED SHIPMENT	445(1)(D)
			OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED	445(1)(E)
			REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG	445(1)(F)
			REF. TO NAME SERVICES RECORD NAMING RECIPIENT	445(1)(G)
			PURPOSE OF SHIPMENT	445(1)(H)
			STATUS OF SHIPMENT	445(1)(I)
			REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD	445(1)(J)
			REF. TO "NEXT" OUTGOING SHIPPING RECORD	445(1)(K)
			VALIDATION TAG FROM HEADER	445(1)(L)
			VALIDATION TAG TO ADMINISTRATIVE EVENT LOG	445(1)(M)
			VALIDATION TAG TO NAME SERVICES RECORD	445(1)(N)
			VALIDATION TAG FROM PREVIOUS RECORD	445(1)(O)
			VALIDATION TAG TO NEXT RECORD	445(1)(P)
			CHECK VALUE	445(1)(Q)
			SHIPPING RECORD N	445(1)(R)

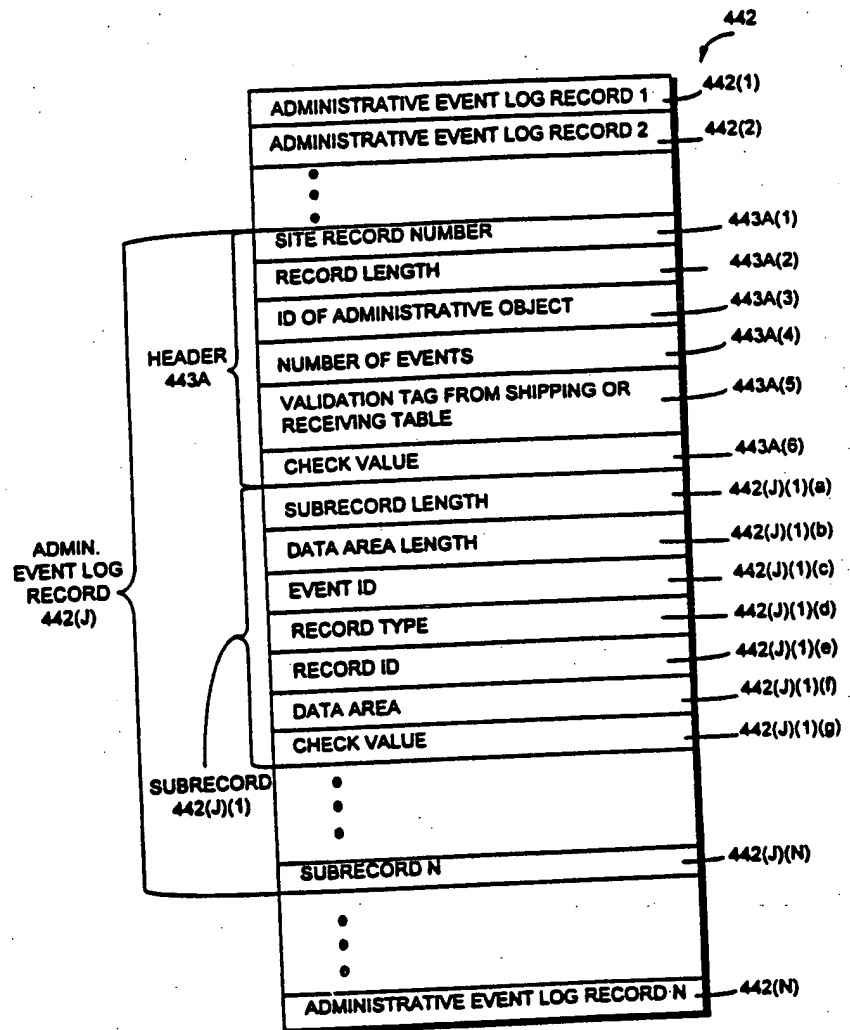
**FIG. 28**  
RECEIVING TABLE

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HEADER 446A	446A(1)		
	SITE RECORD NUMBER		446
	USER (GROUP) ID		446A(2)
	REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD		446A(3)
	REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD		446A(4)
	REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD		446A(5)
	REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD		446A(6)
	VALIDATION TAG FROM NAME SERVICES RECORD		446A(7)
	VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S)		446A(8)
	CHECK VALUE		446A(9)
RECEIVING RECORD 447(1)	SITE RECORD NUMBER		447(1)(A)
	FIRST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(B)
	LAST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(C)
	ACTUAL DATE/TIME OF COMPLETED RECEPTION		447(1)(D)
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED		447(1)(E)
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG		447(1)(F)
	REF. TO NAME SERVICES RECORD NAMING SENDER		447(1)(G)
	PURPOSE OF RECEPTION		447(1)(H)
	STATUS OF RECEPTION		447(1)(I)
	REF. TO "PREVIOUS" INCOMING RECEIVING RECORD		447(1)(J)
	REF. TO "NEXT" INCOMING RECEIVING RECORD		447(1)(K)
	VALIDATION TAGS		447(1)(L)
	CHECK VALUE		447(1)(M)
	⋮		
	RECEIVING RECORD N		447(2)

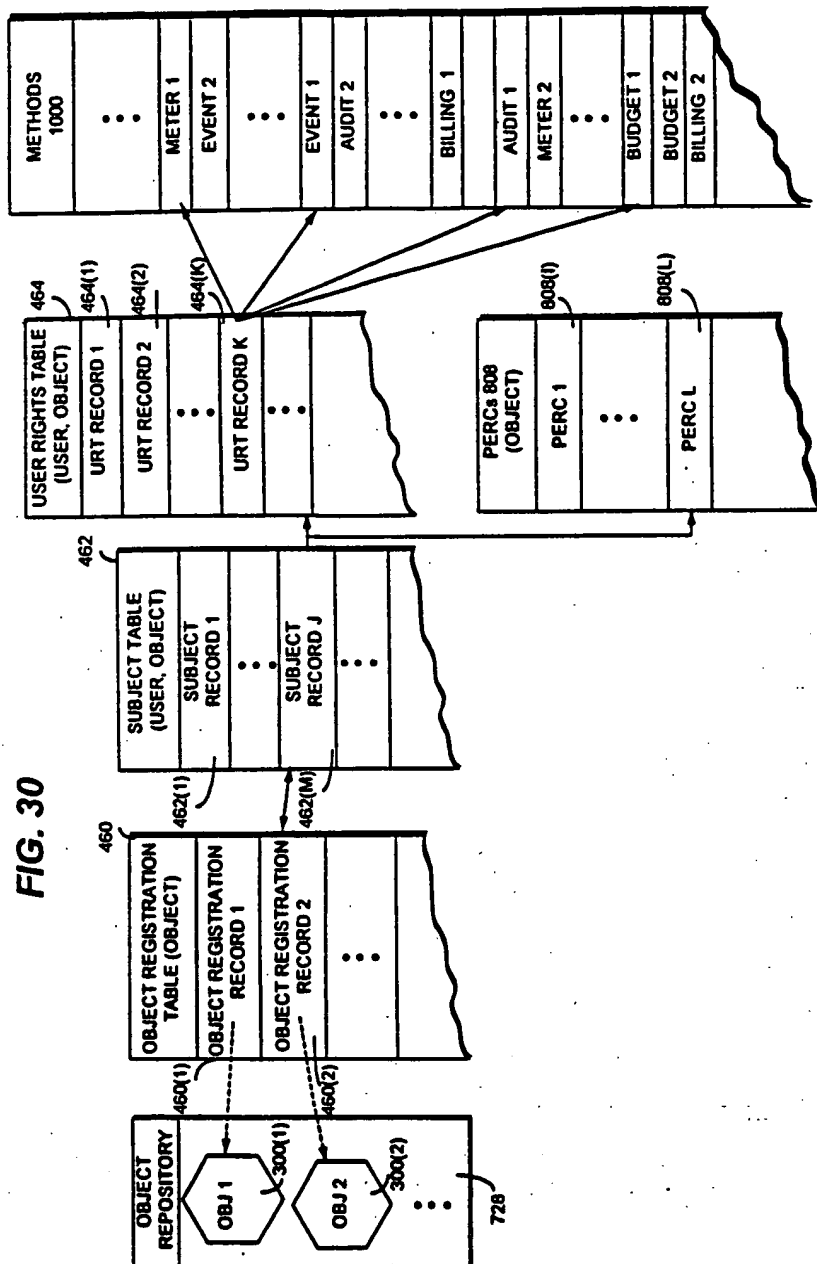
**FIG. 29**  
ADMINISTRATIVE EVENT LOG

09870801:060101

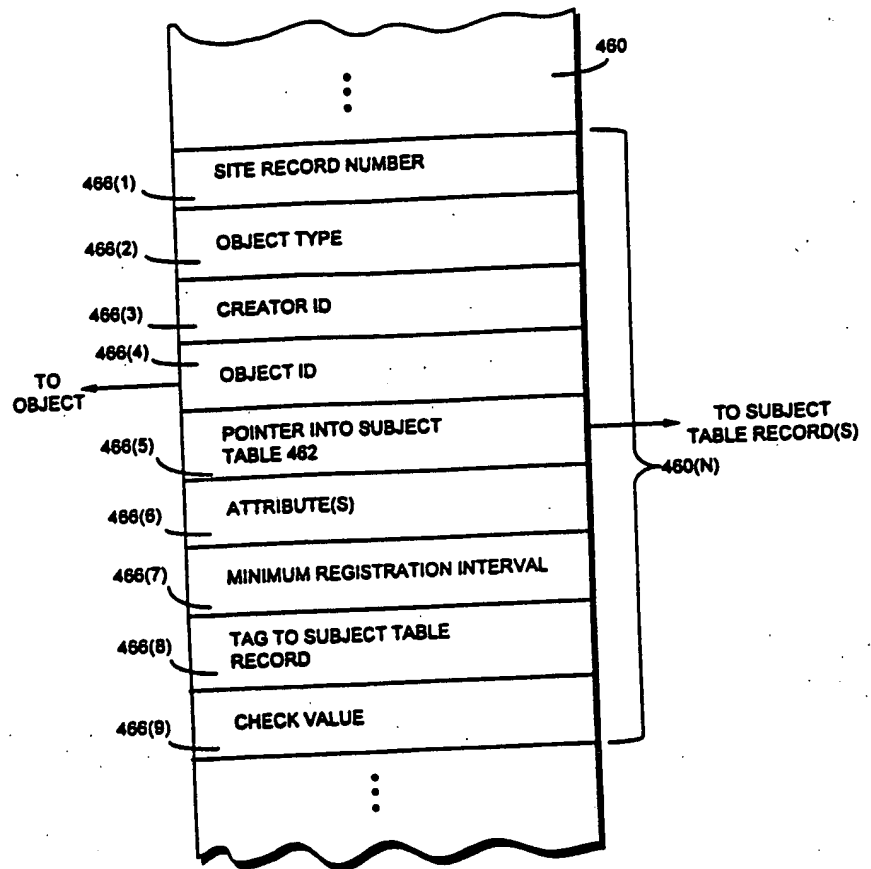


"FOI090" 10804860

FIG. 30



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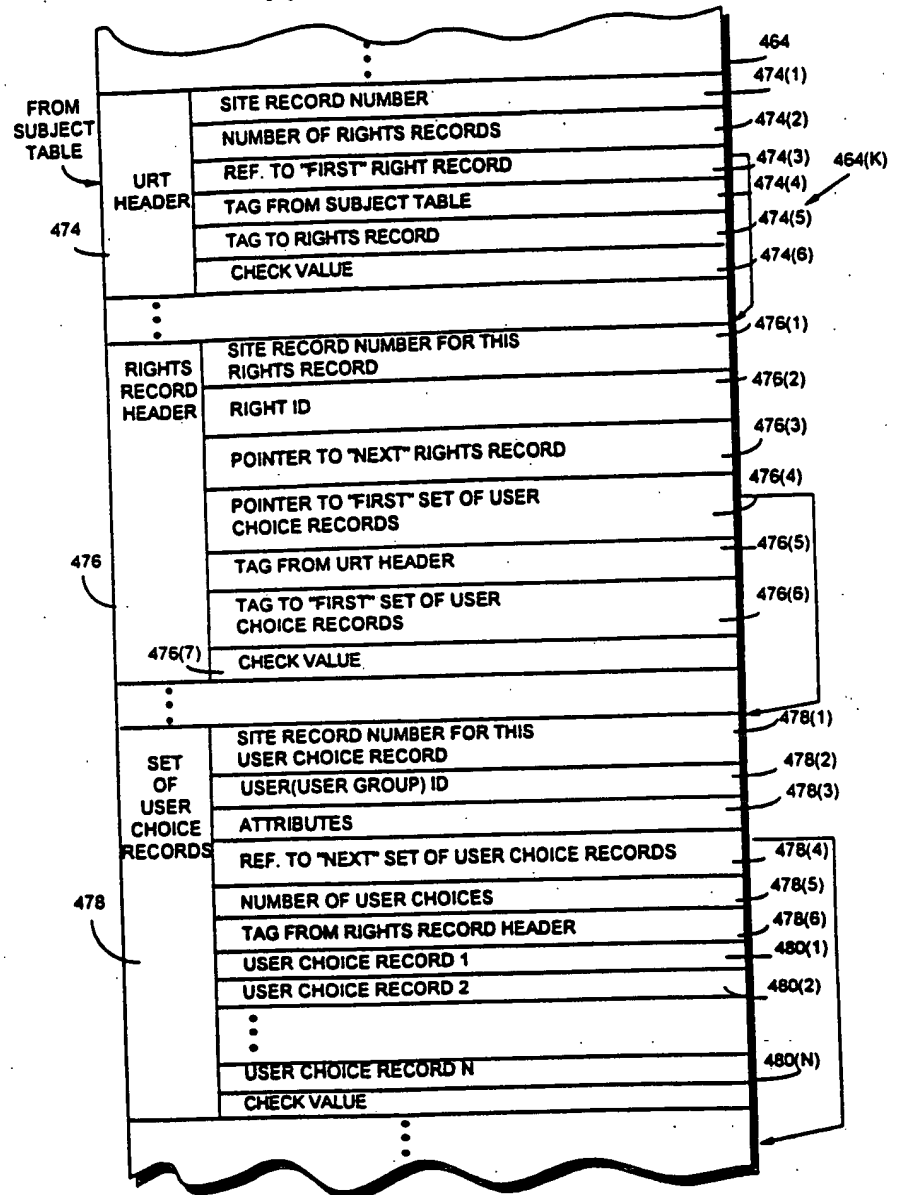


**FIG. 31**  
OBJECT REGISTRATION TABLE



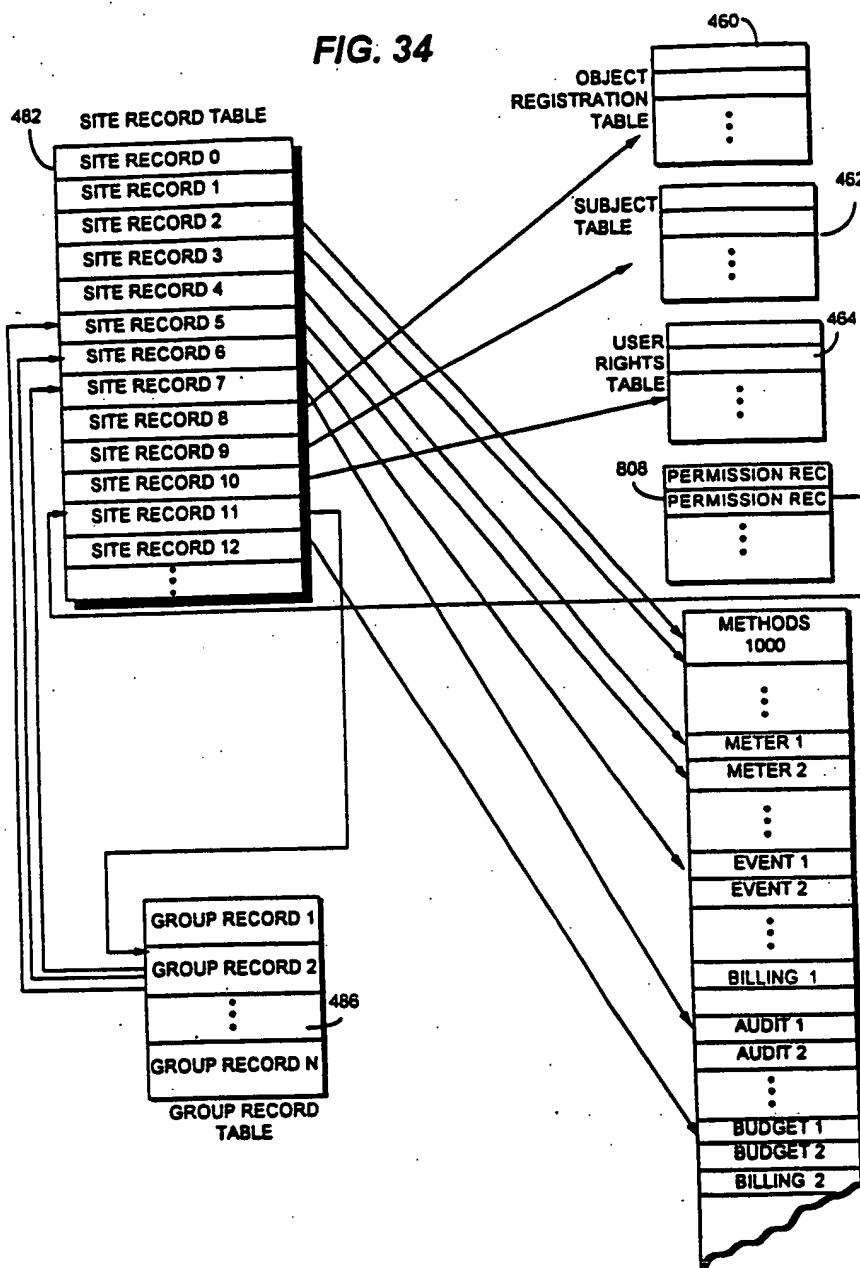


FIG. 33 USER RIGHTS TABLE



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FIG. 34



09870901.060101

**FIG. 34A**

**SITE RECORD**

482(J)		482
TYPE OF RECORD		484(1)
OWNER OR CREATOR OF RECORD		484(2)
CLASS		484(3)
INSTANCE		484(4)
TYPE SPECIFIC DESCRIPTOR (e.g., OBJECT ID) ASSOCIATED WITH RECORD		484(5)
TABLE IN WHICH THE RECORD IS LOCATED		484(6)
POINTER - OFFSET, WITHIN THE TABLE, TO WHERE THE RECORD BEGINS		484(7)
RECORD LENGTH		484(8)
VALIDATION TAG FOR RECORD		484(9)
CHECK VALUE		484(10)

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FIG. 34B

GROUP RECORD

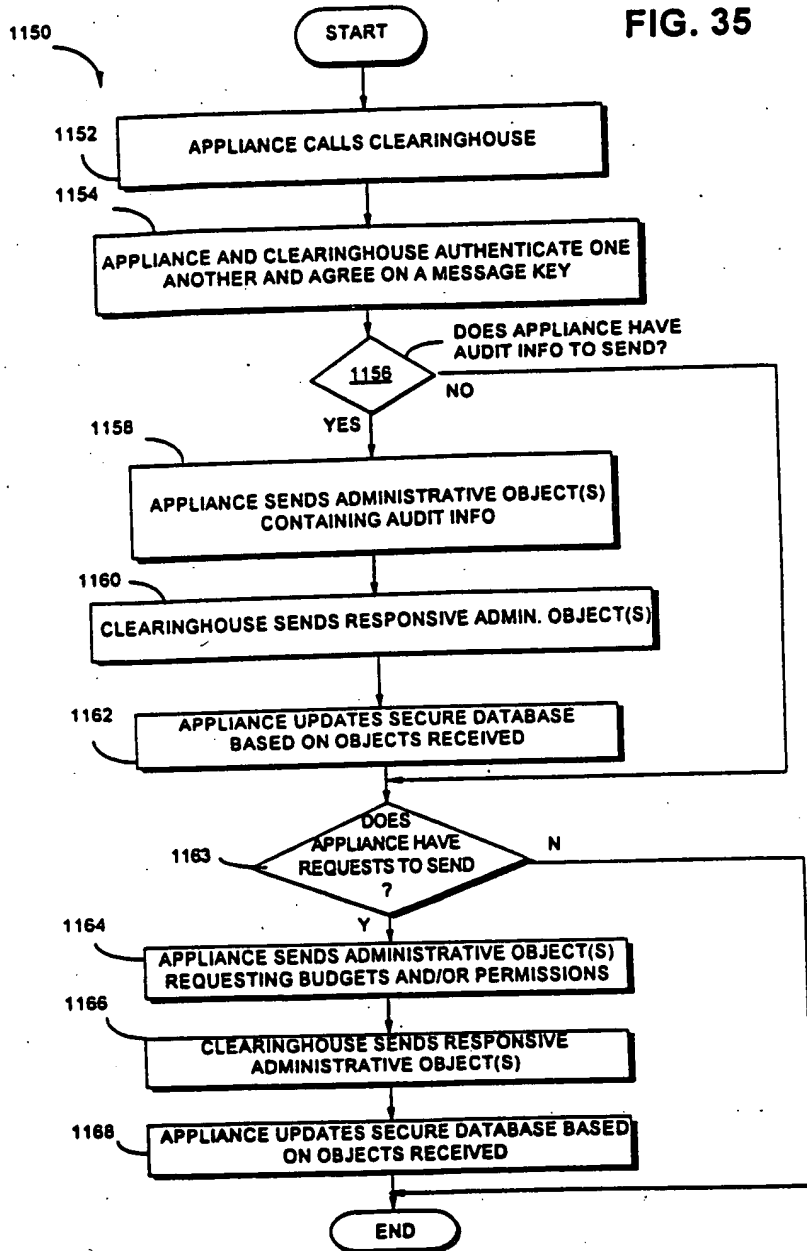
486

486(J)

SITE RECORD NUMBER	488(1)
NUMBER OF REFERENCE SUBRECORDS	488(2)
VALIDATION TAG FOR GROUP OF RECORDS	488(3)
REFERENCE SUBRECORD 1	488(4)
REF.(SITE RECORD NUMBER 1) FOR 1ST RECORD IN GROUP	490(A)
VALIDATION TAG FOR RECORD	490(B)
REFERENCE SUBRECORD 2	488(5)
REF.(SITE RECORD NUMBER 2) FOR 1ST RECORD IN GROUP	490(C)
VALIDATION TAG FOR RECORD	490(D)
...	
CHECKSUM (CRC)	488(6)

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FIG. 35



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FIG. 36

FIG. 36

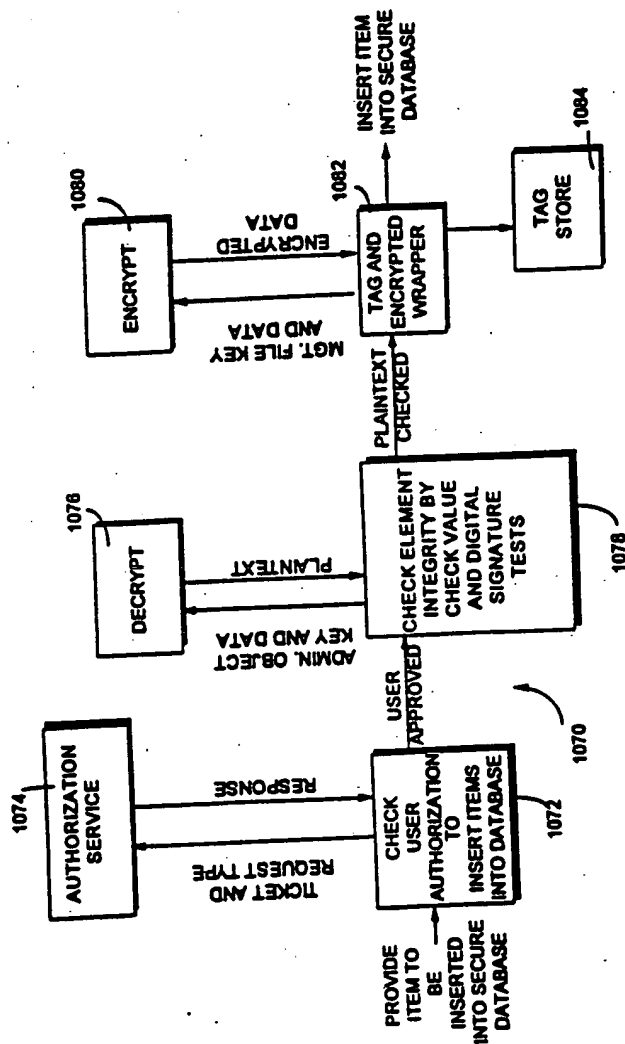


FIG. 37

FIG. 37

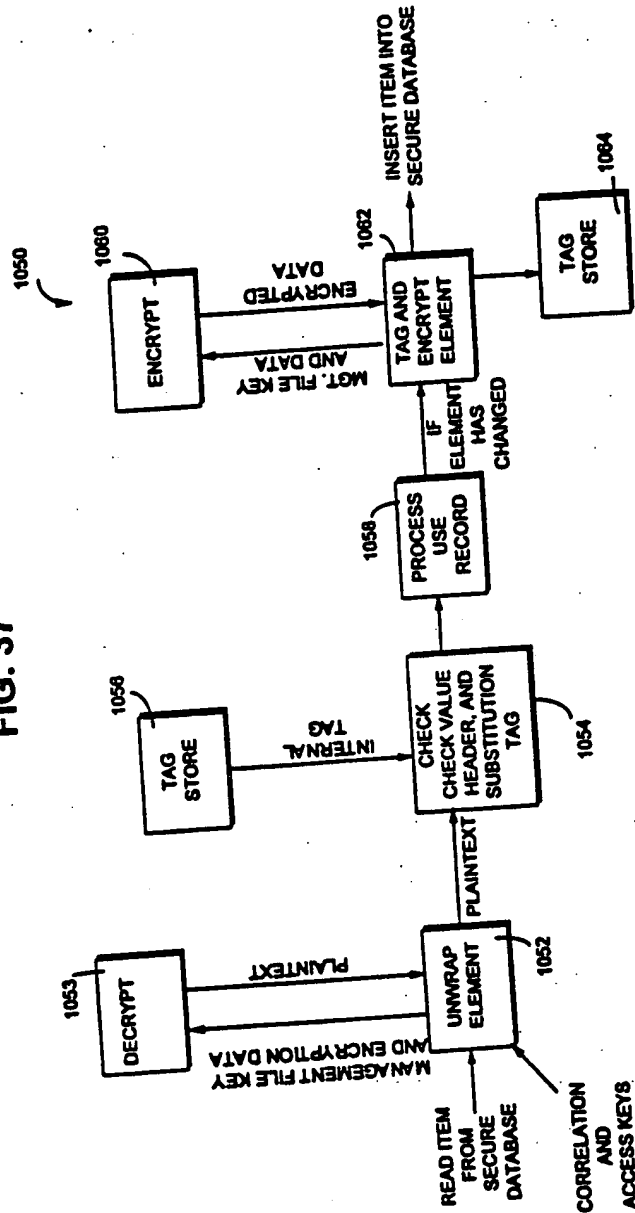
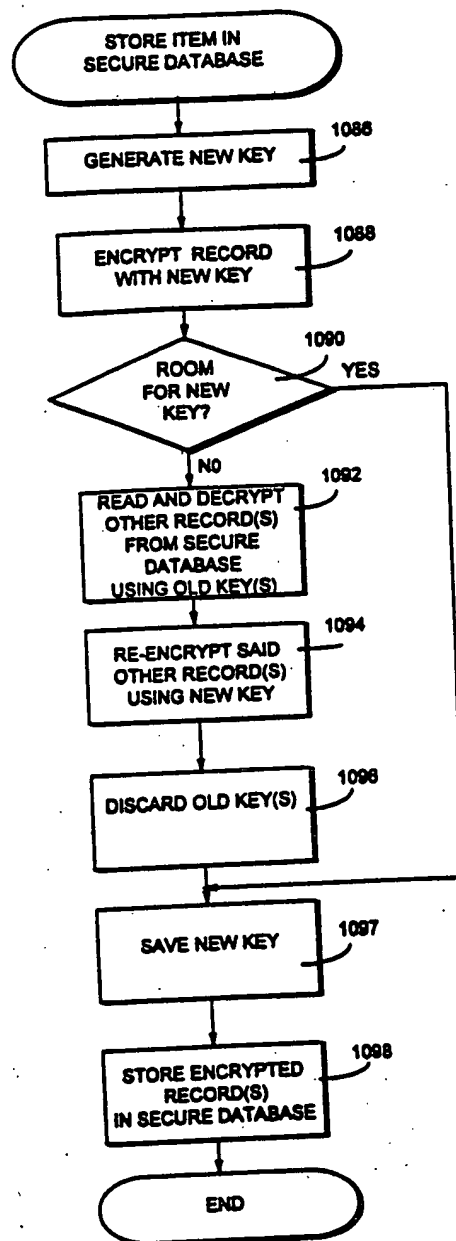


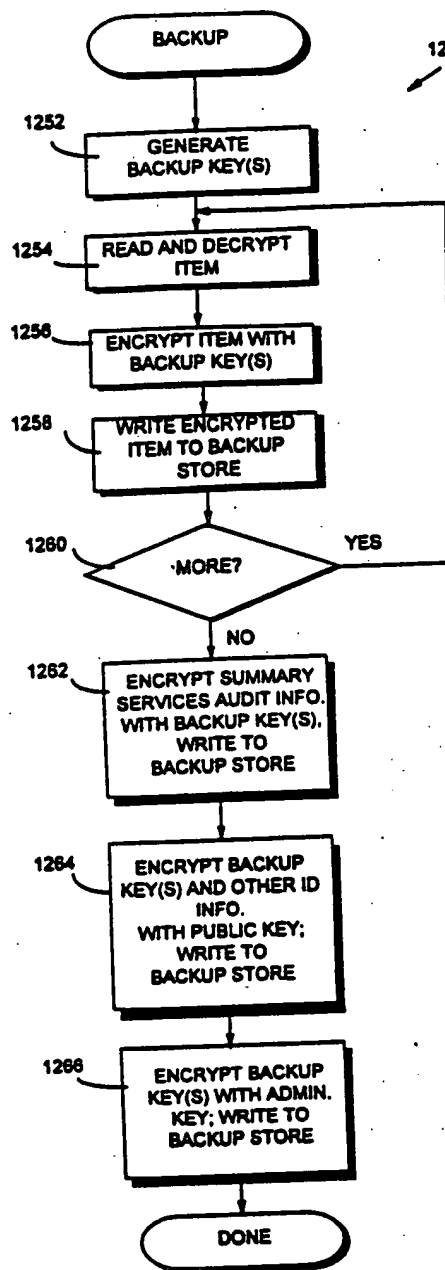
FIG. 38

09870801.060101



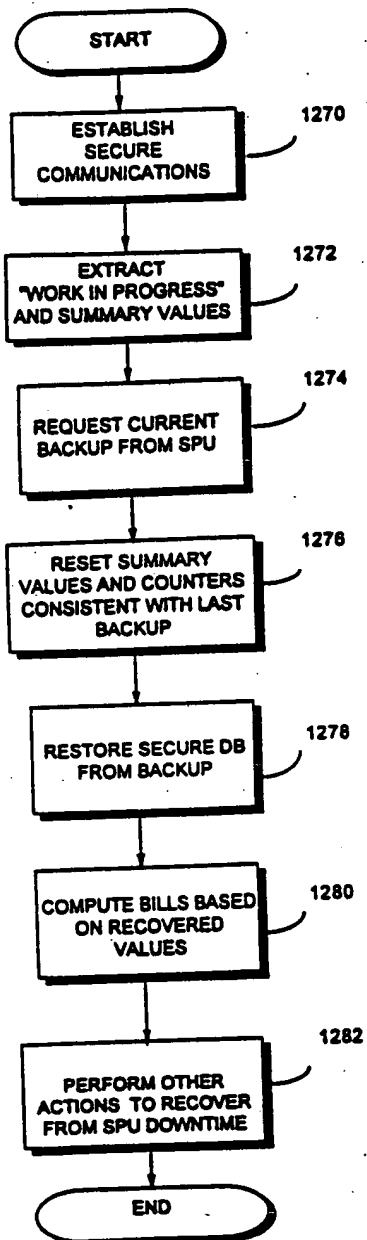


1250



**FIG. 40**  
RECOVER SECURE DATABASE

1268



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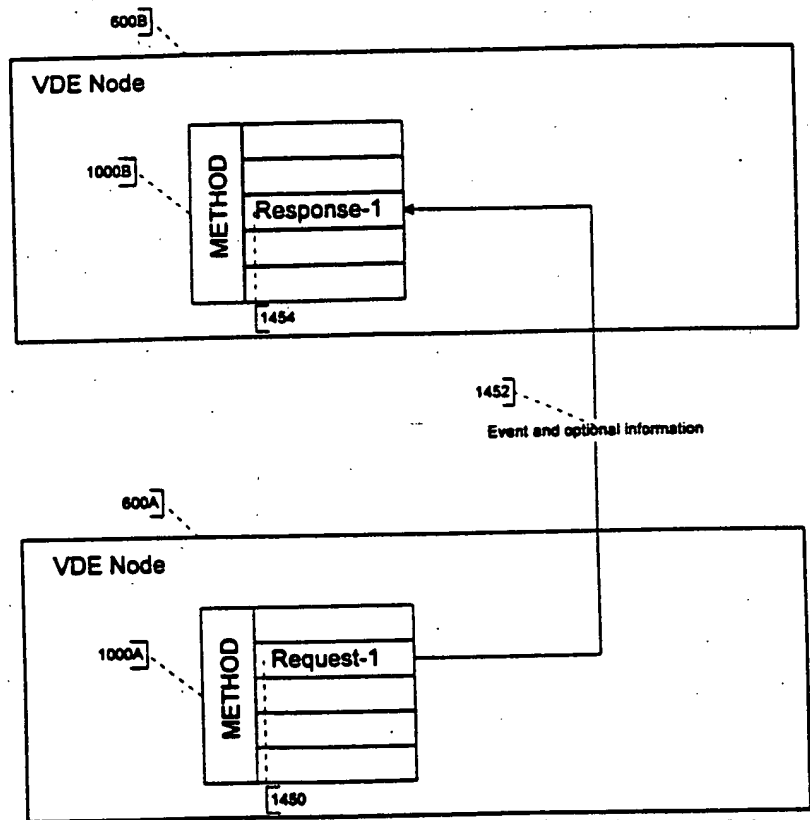


Figure 41a

09870801.050101

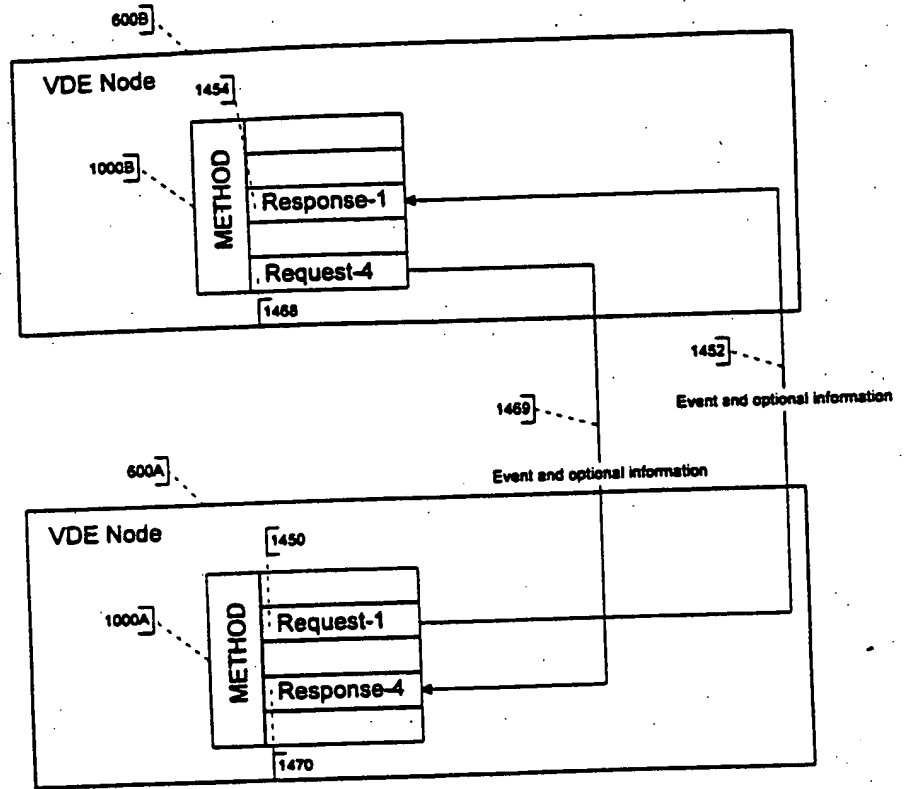


Figure 41b

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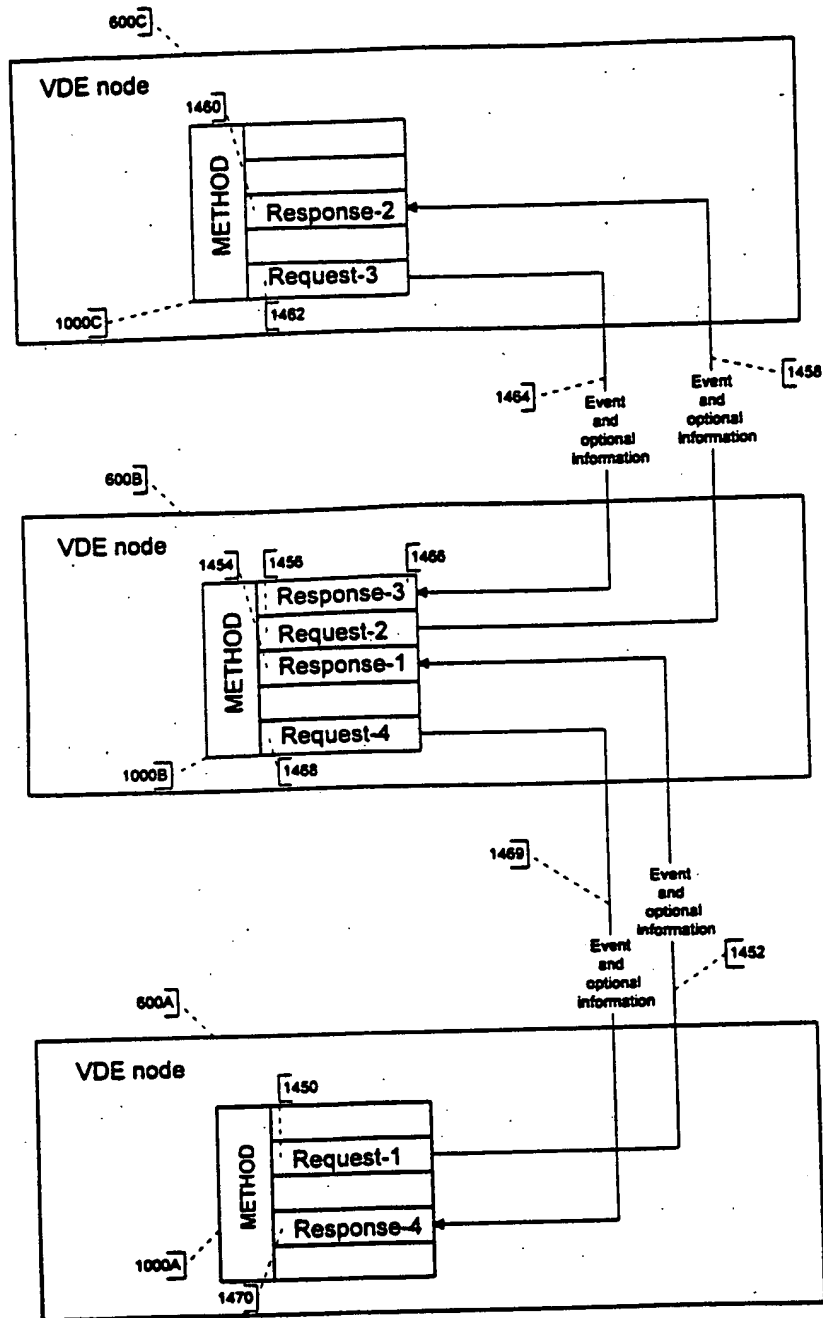


Figure 41c

09870801-090100

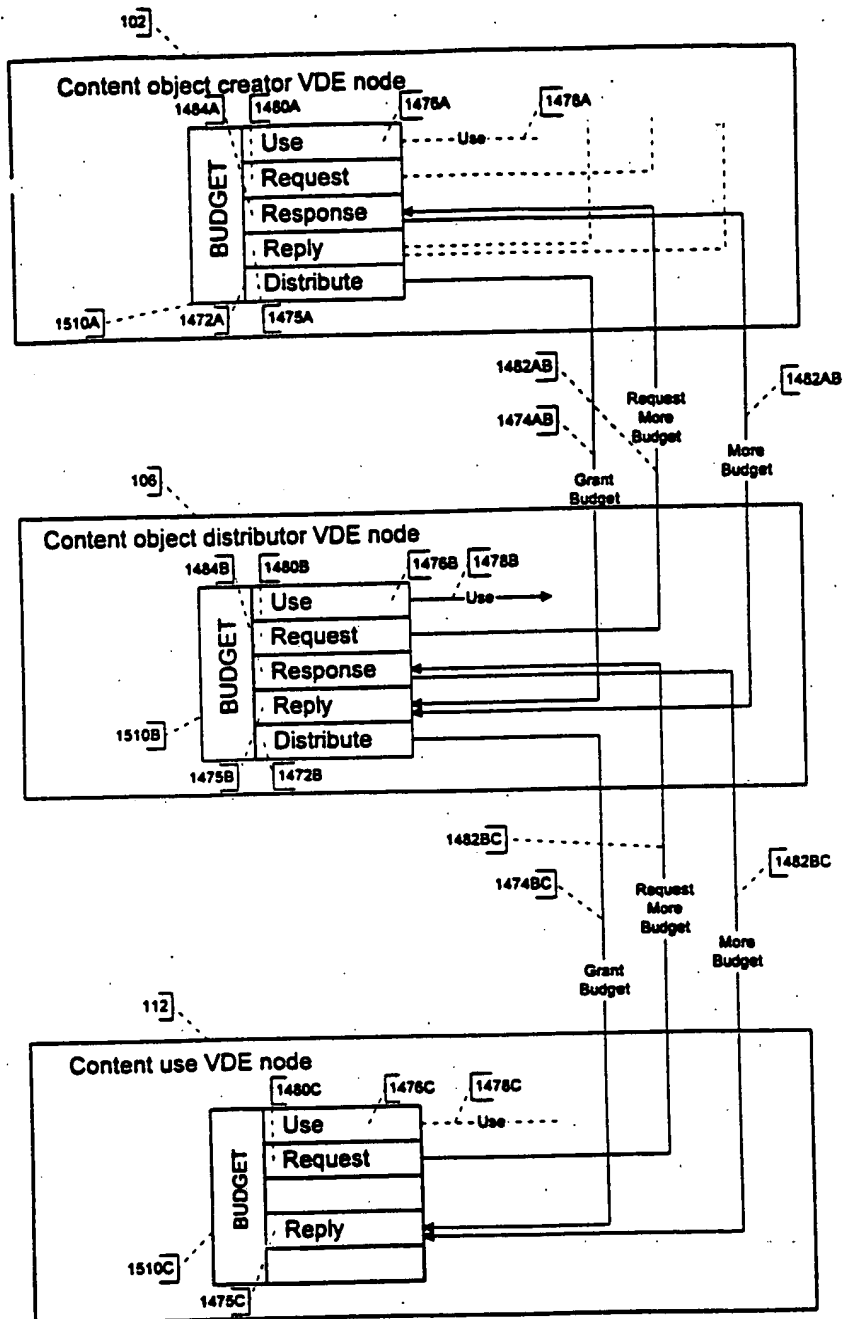


Figure 41d

2250

# BUDGET Method Use Process Flow

09870801-050101

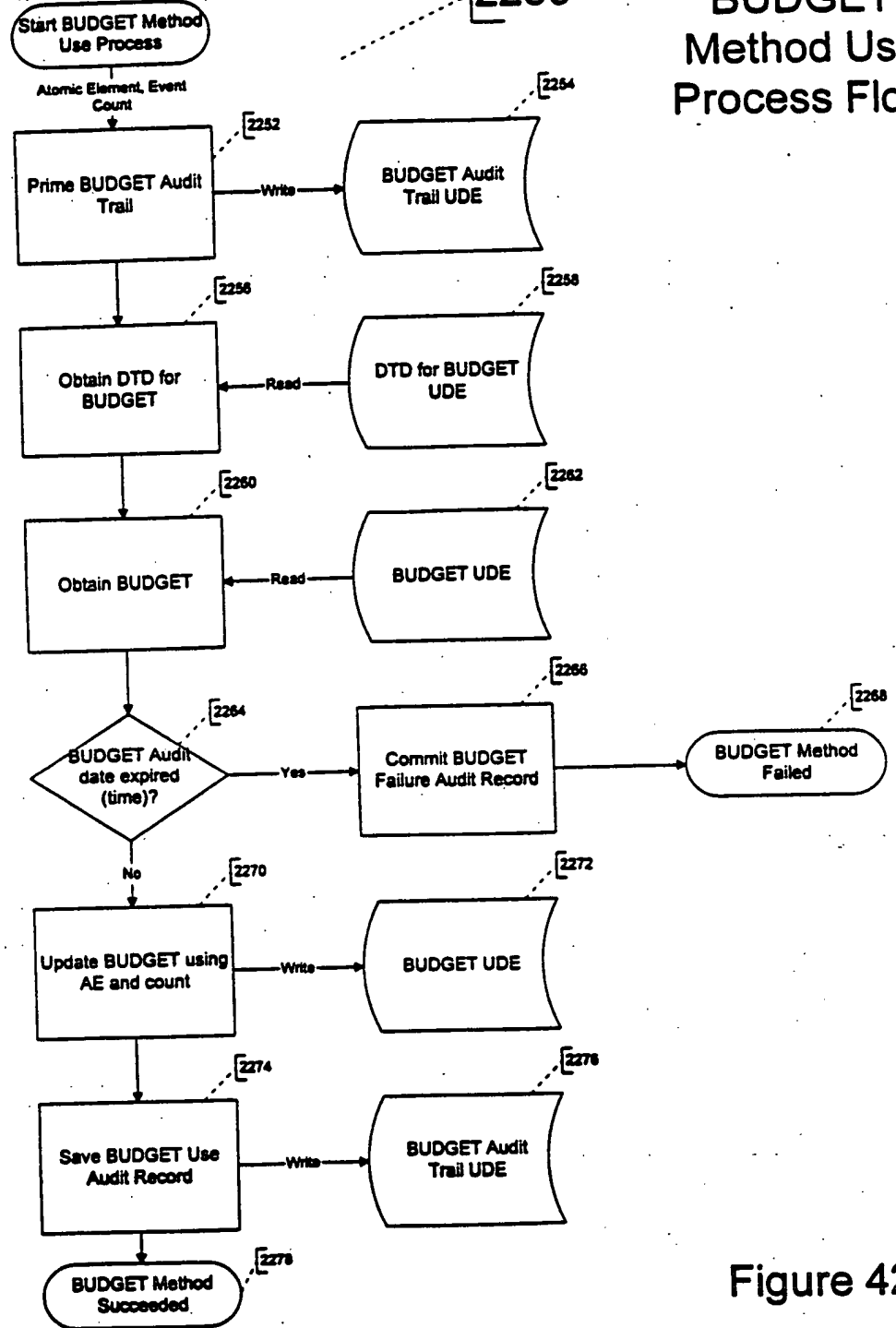


Figure 42a

# BUDGET Method Administrative Request Process Flow

09870801-060101

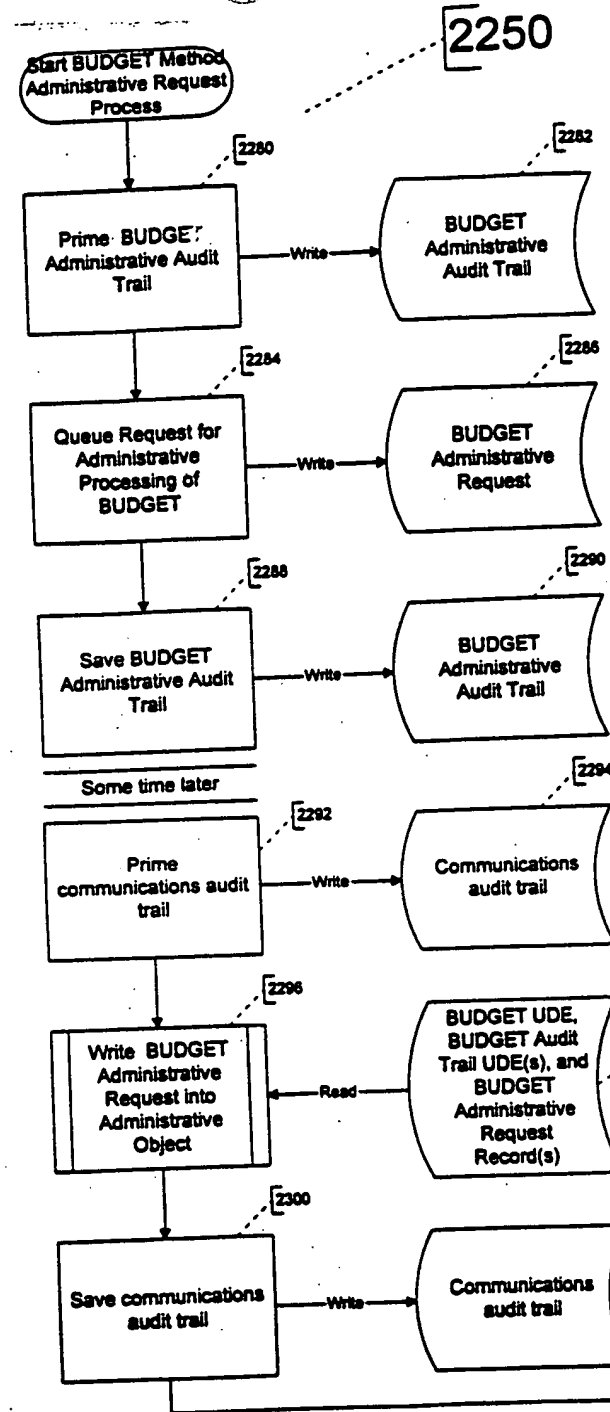


Figure 42b



# BUDGET Method Administrative Response Process Flow

09870801 050101

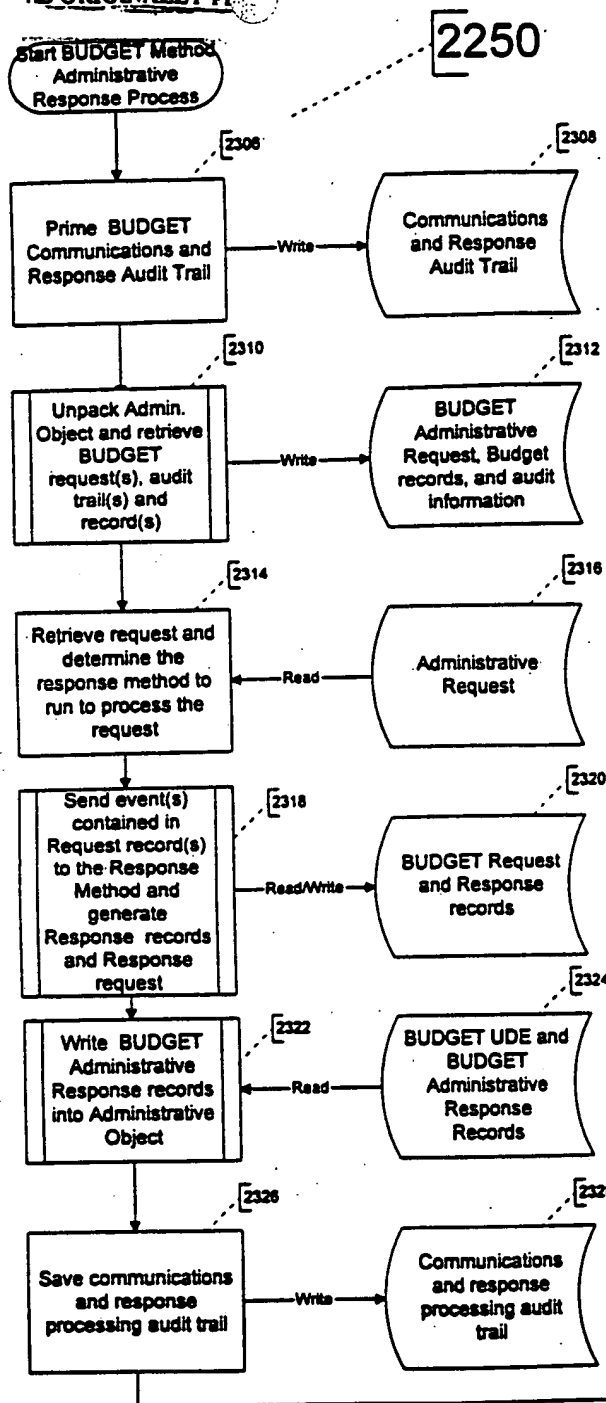


Figure 42c

09370801.060101

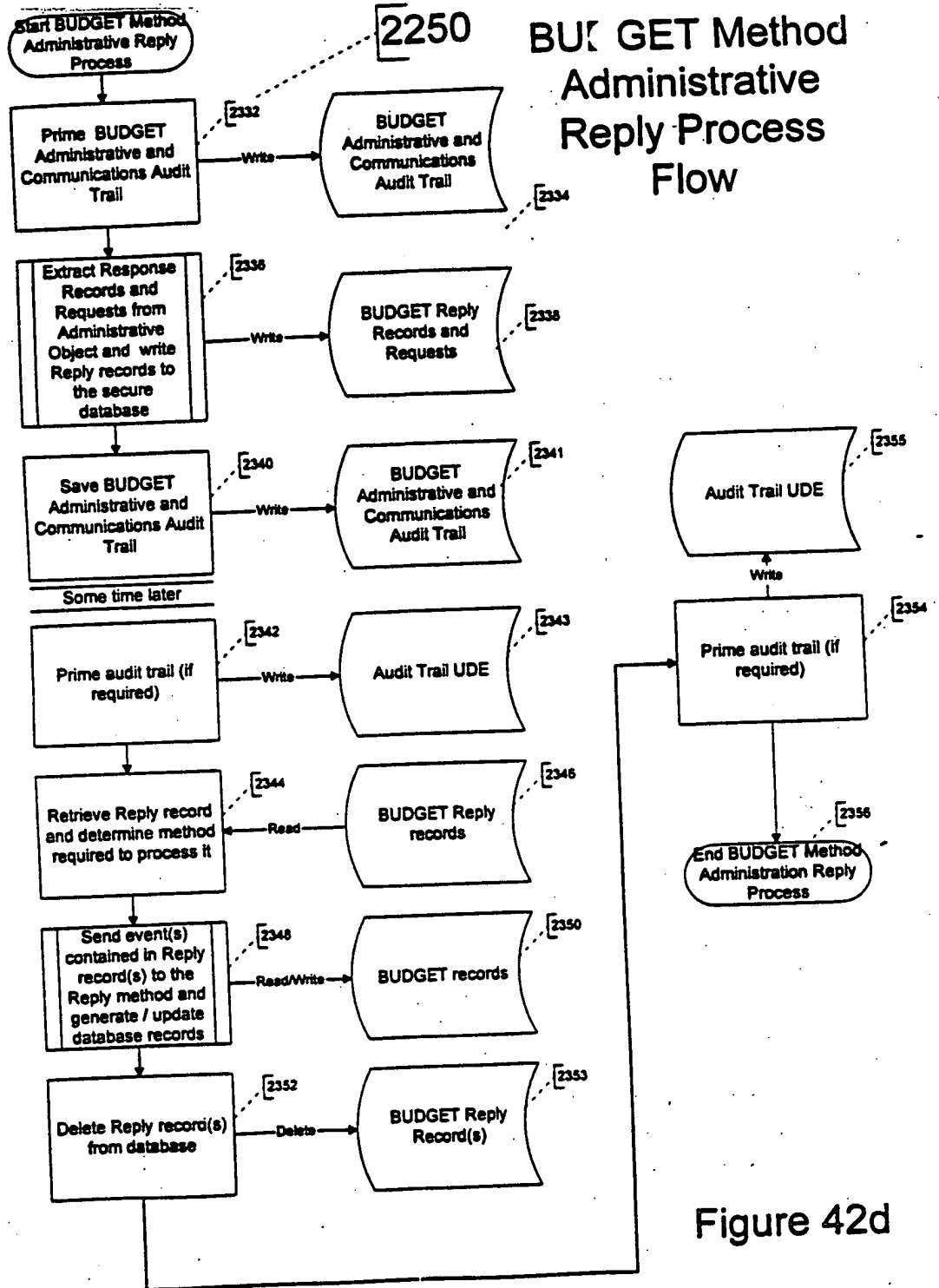


Figure 42d

# REGISTER Method Use Process Flow

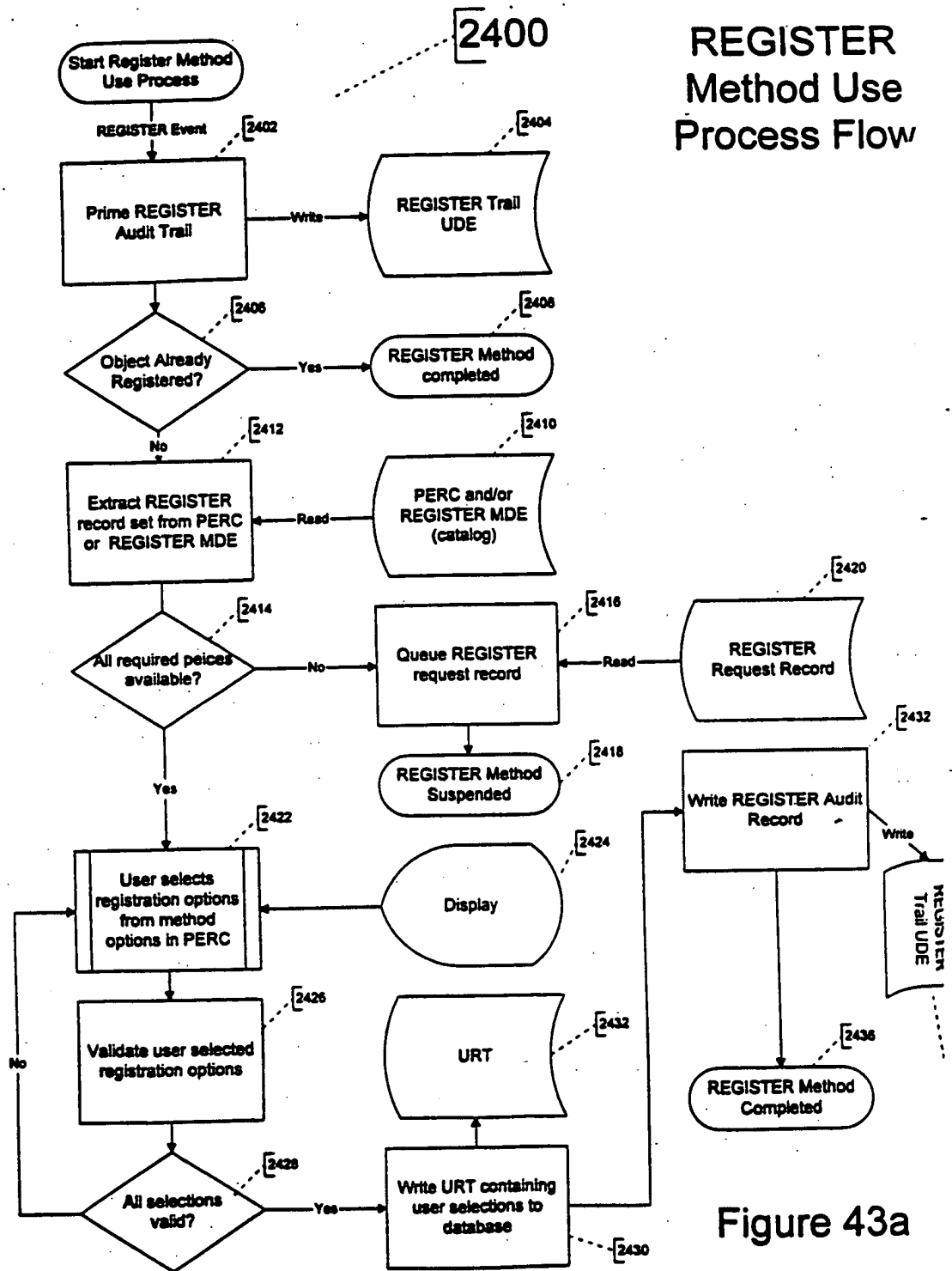


Figure 43a

# REGISTER Method Administrative Request Process Flow

09870801.050101

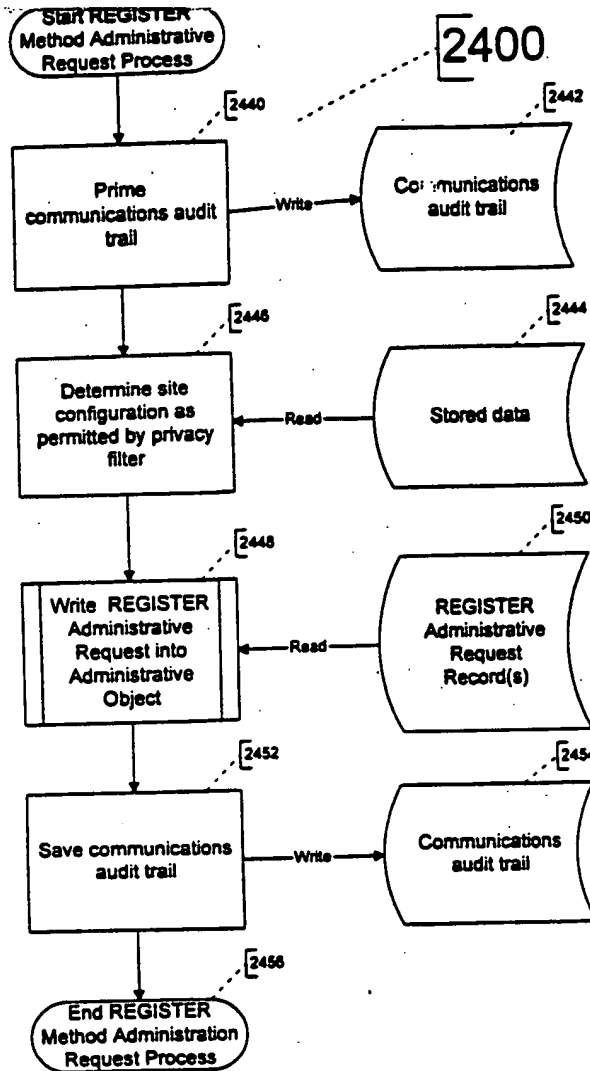


Figure 43b

# REGISTER Method Administrative Response Process Flow

09870801 10802860

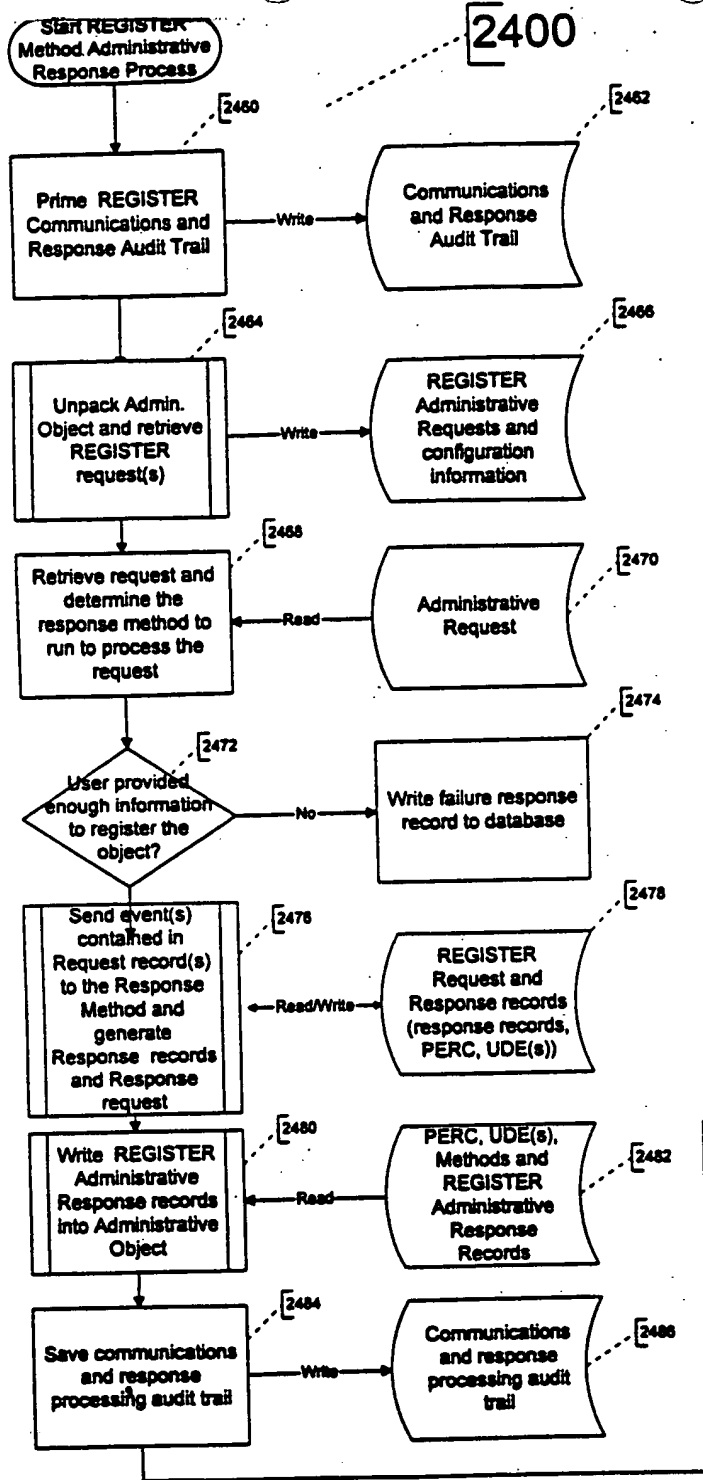


Figure 43c

2520

# AUDIT Method Administrative Request Process Flow

101090-10807860

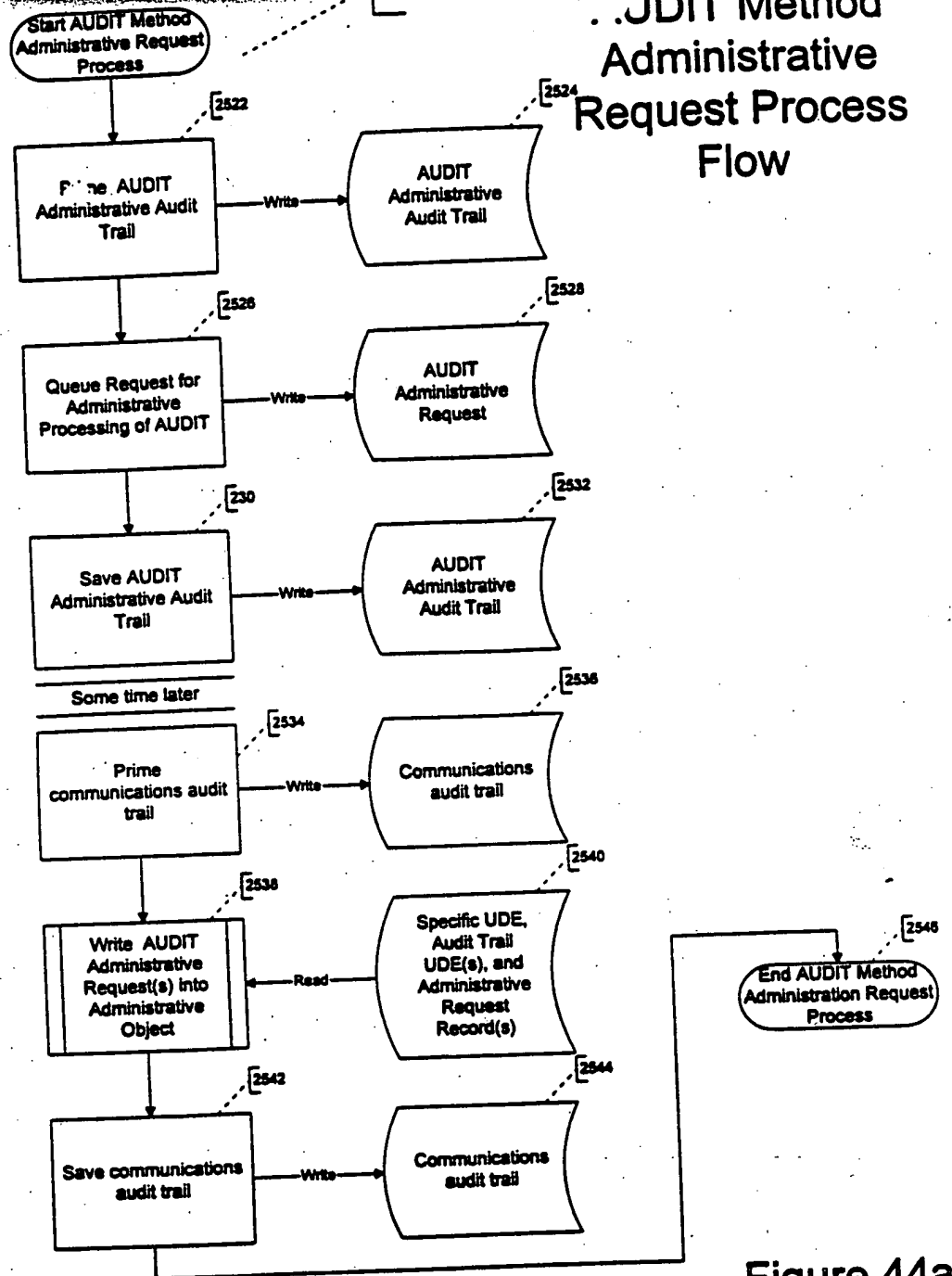


Figure 44a

# AUDIT Method Administrative Response Process Flow

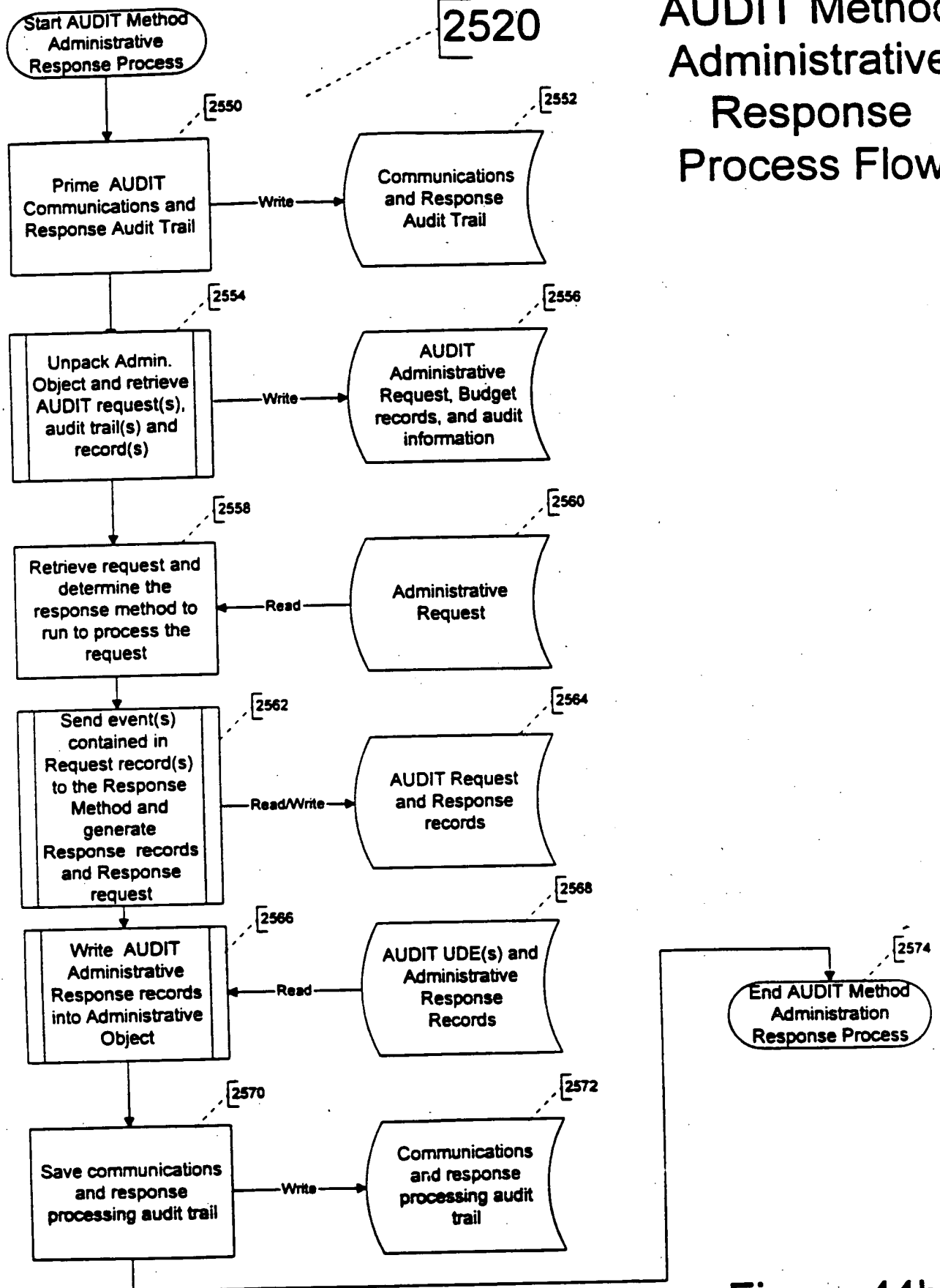


Figure 44b

# AUDIT Method Administrative Reply Process Flow

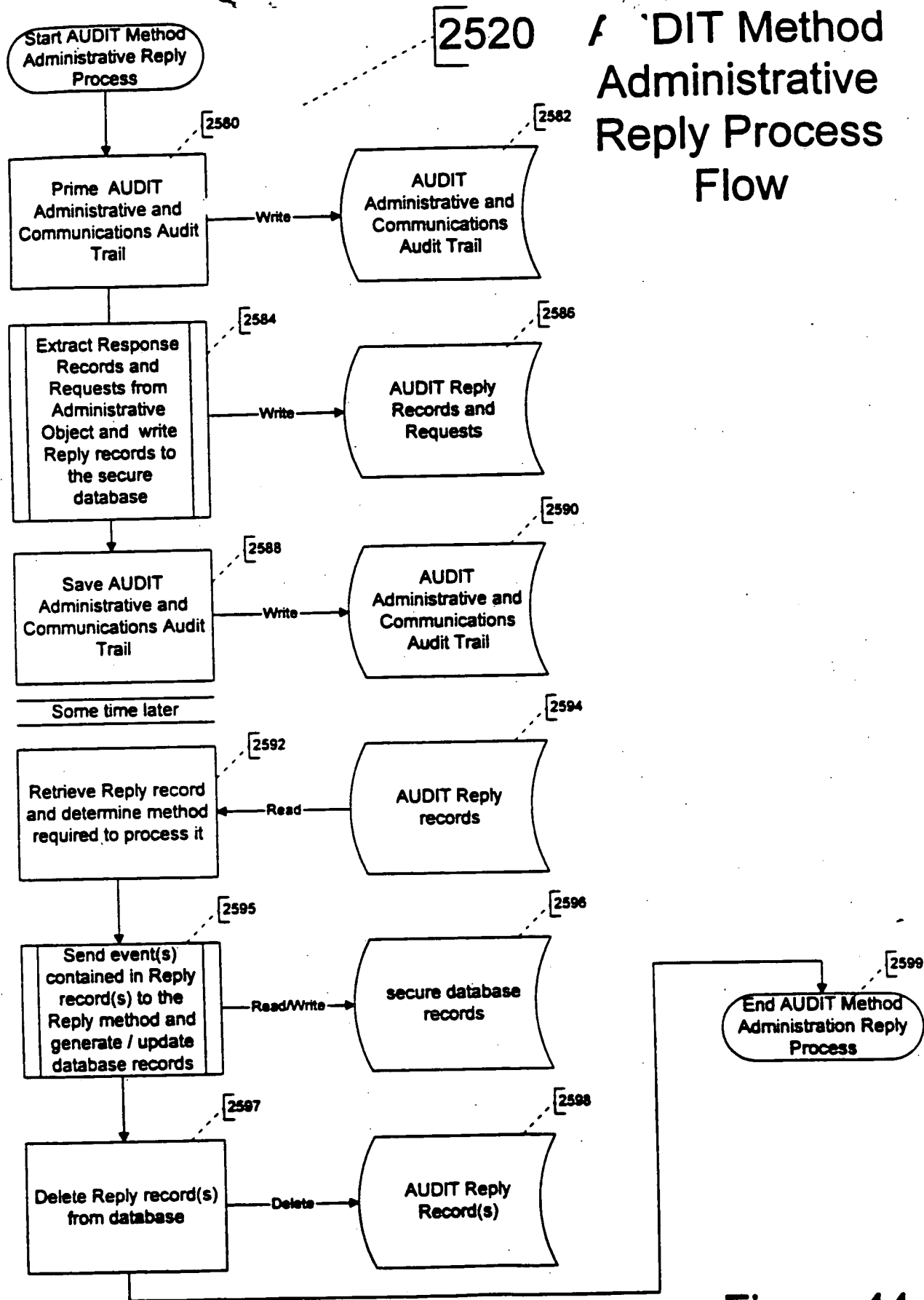


Figure 44c



FIG. 45

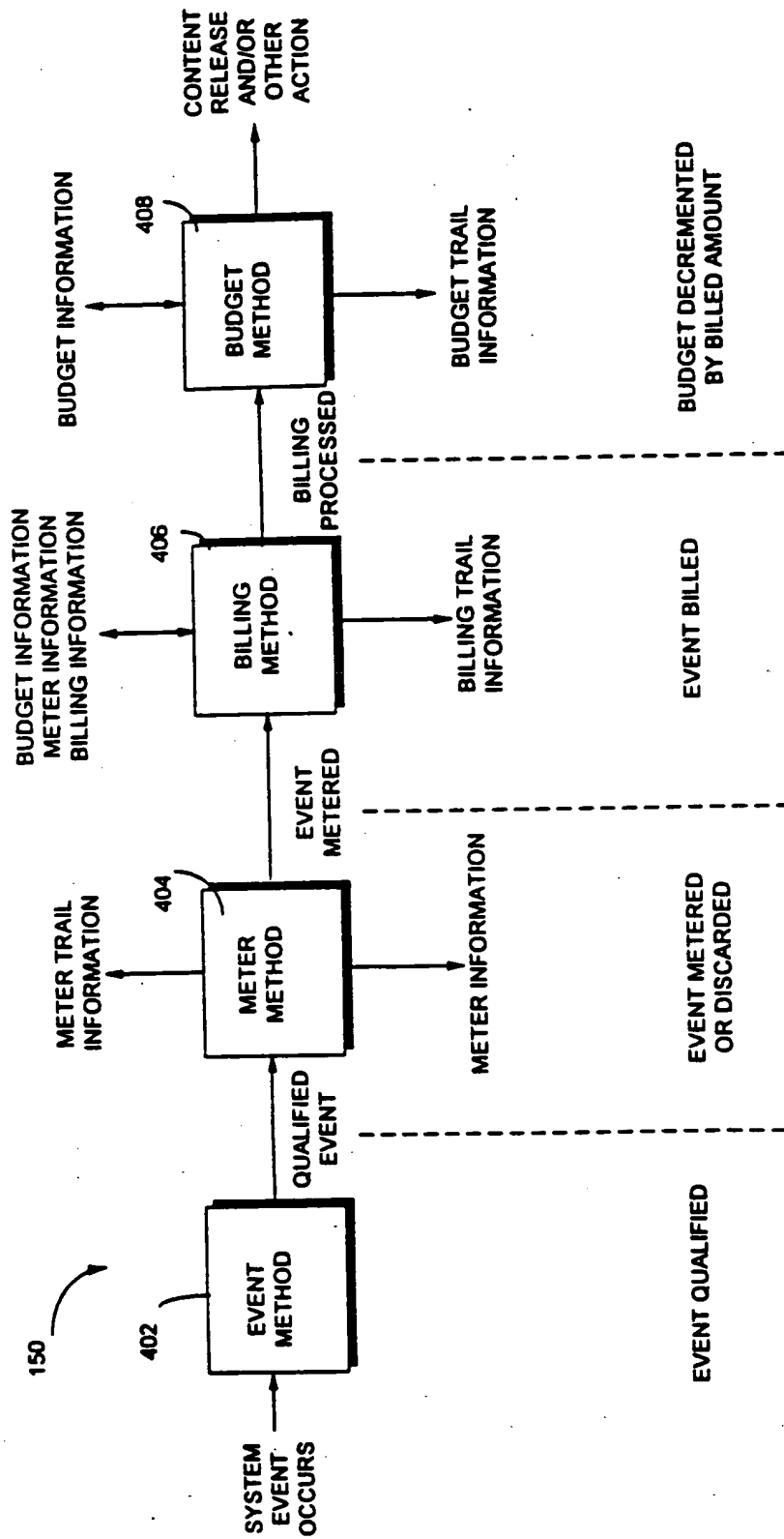


FIG. 46

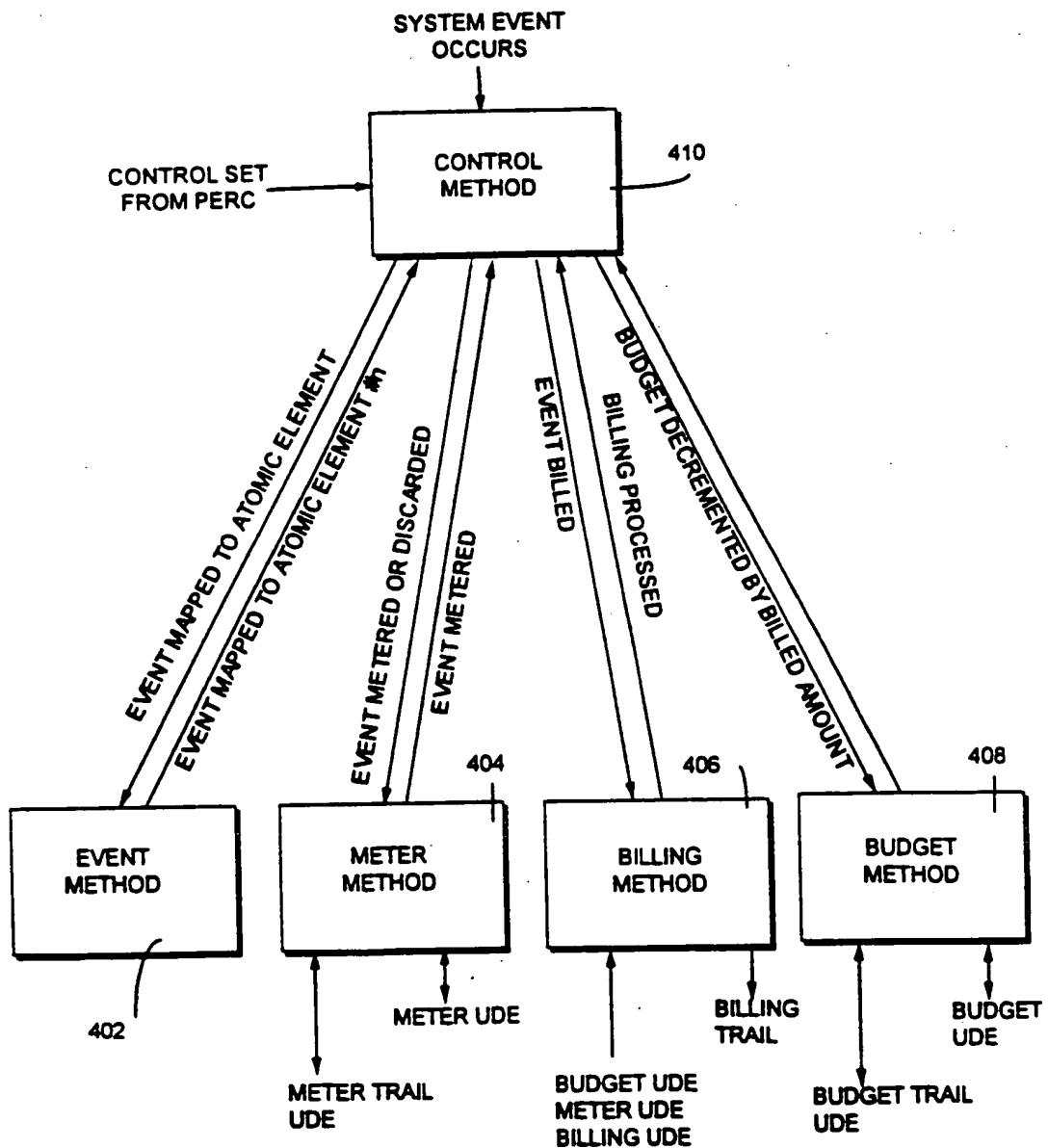
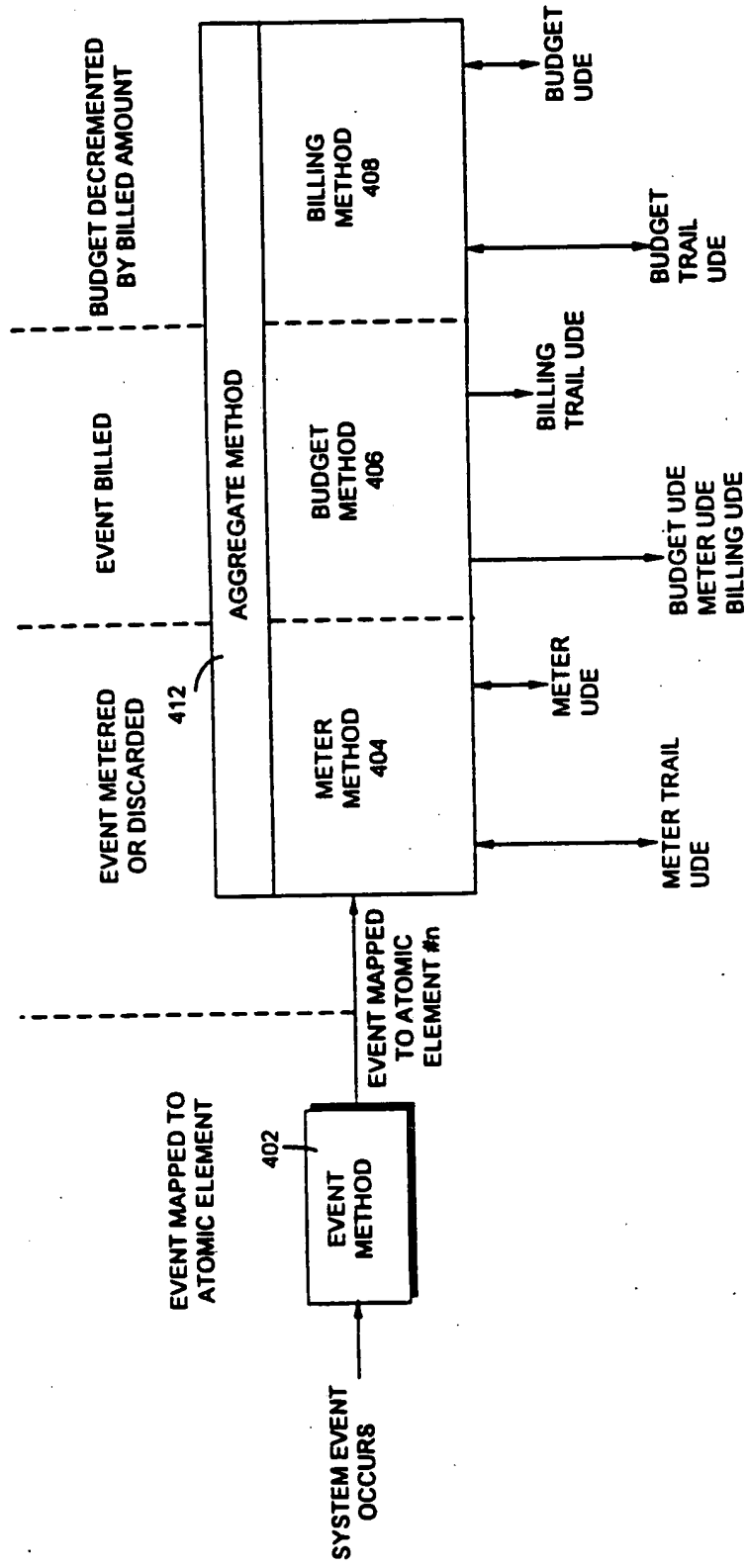


FIG. 47



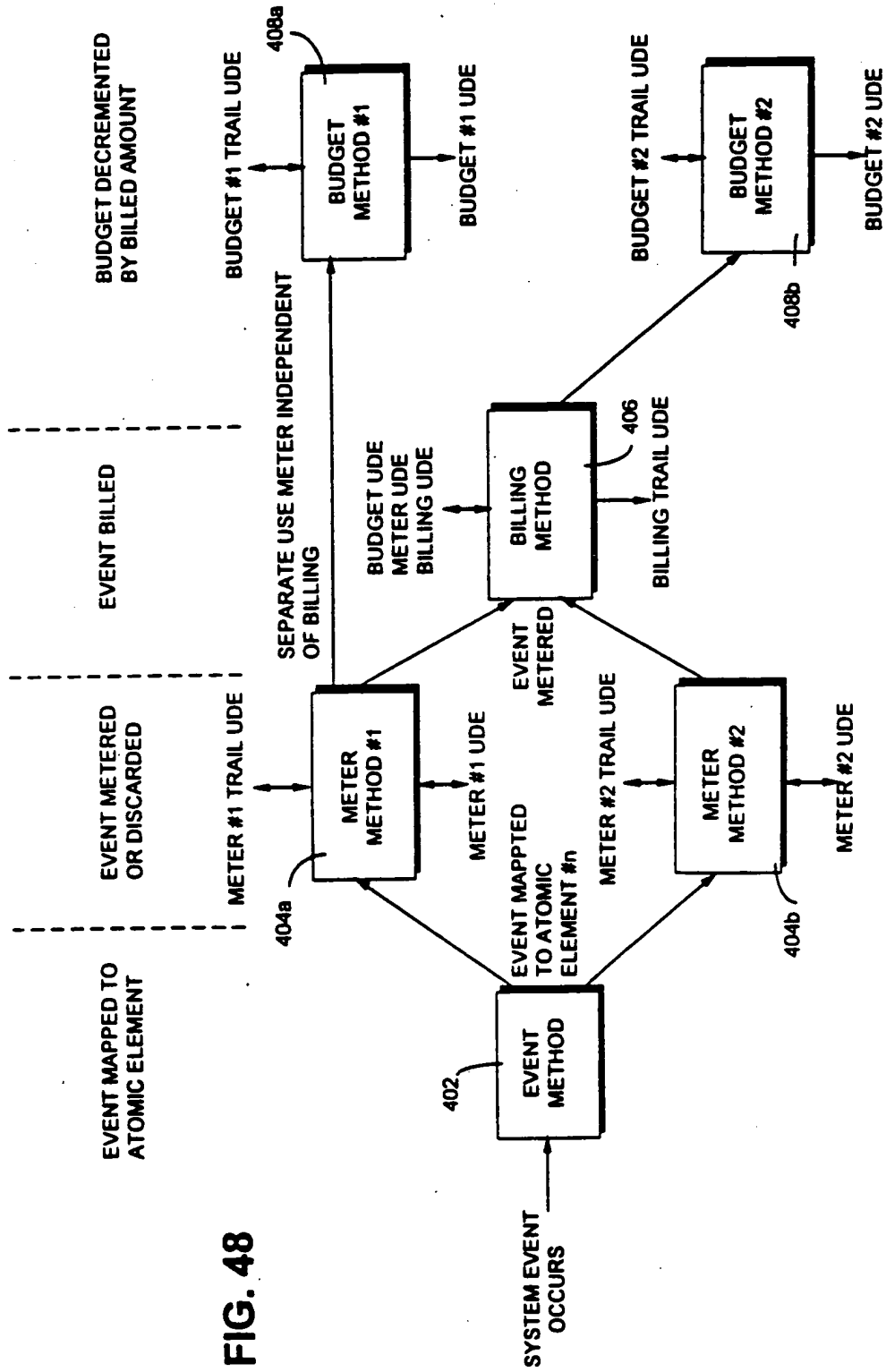


FIG. 48

# OPEN Method Use Process Flow

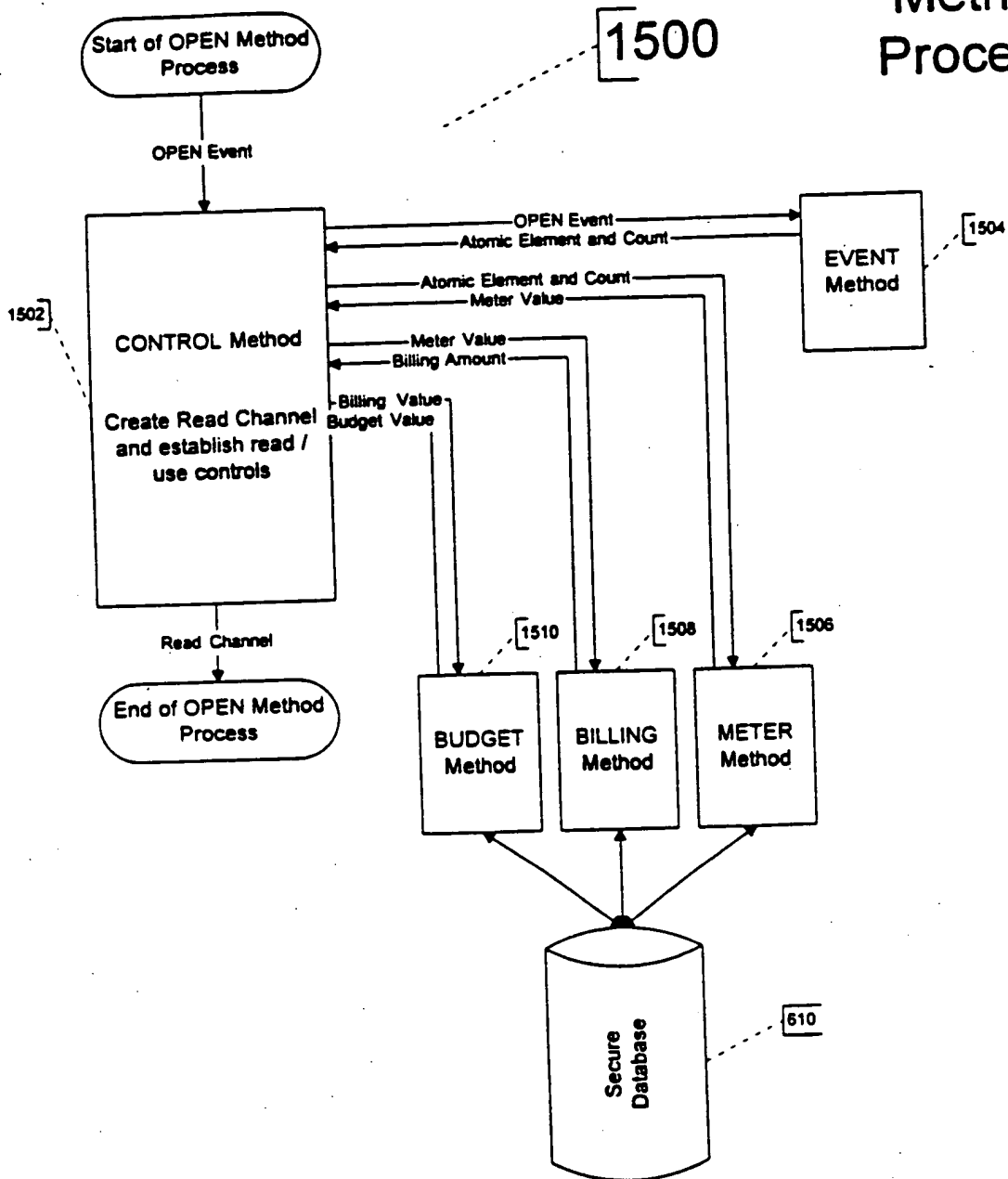


Figure 49

09270801-060101

1500

Start of OPEN Method  
Process

1502

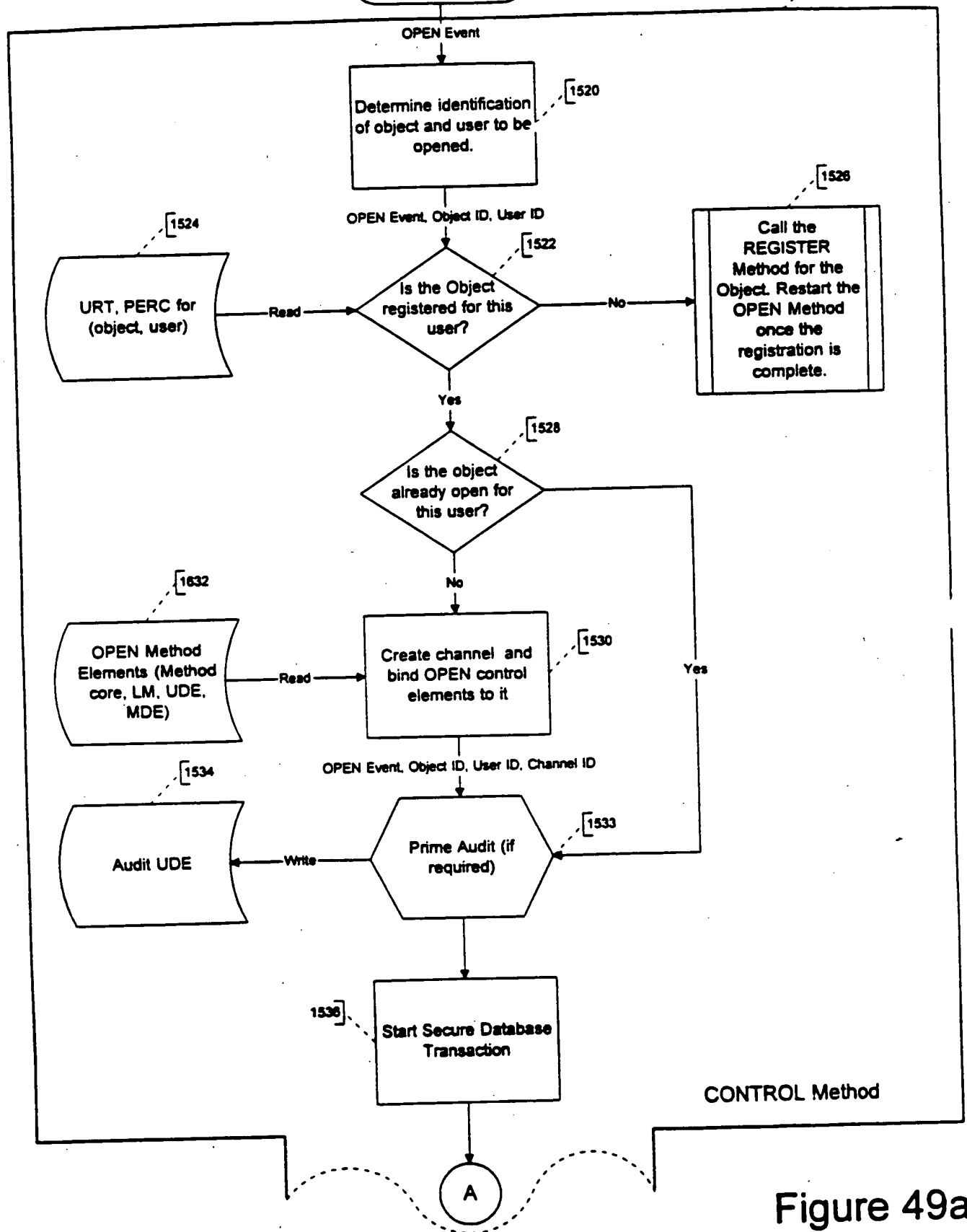


Figure 49a

09670804.060401

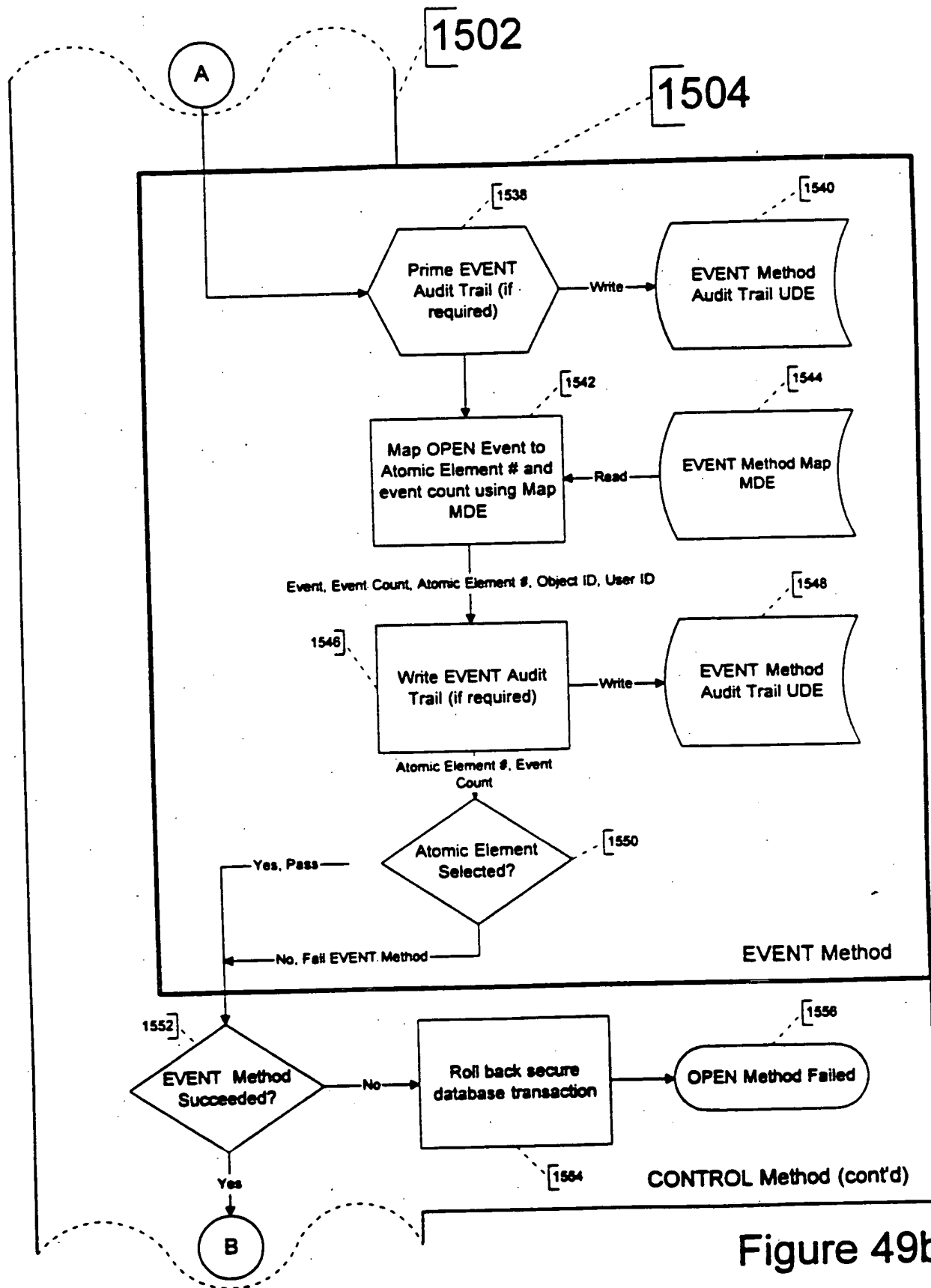
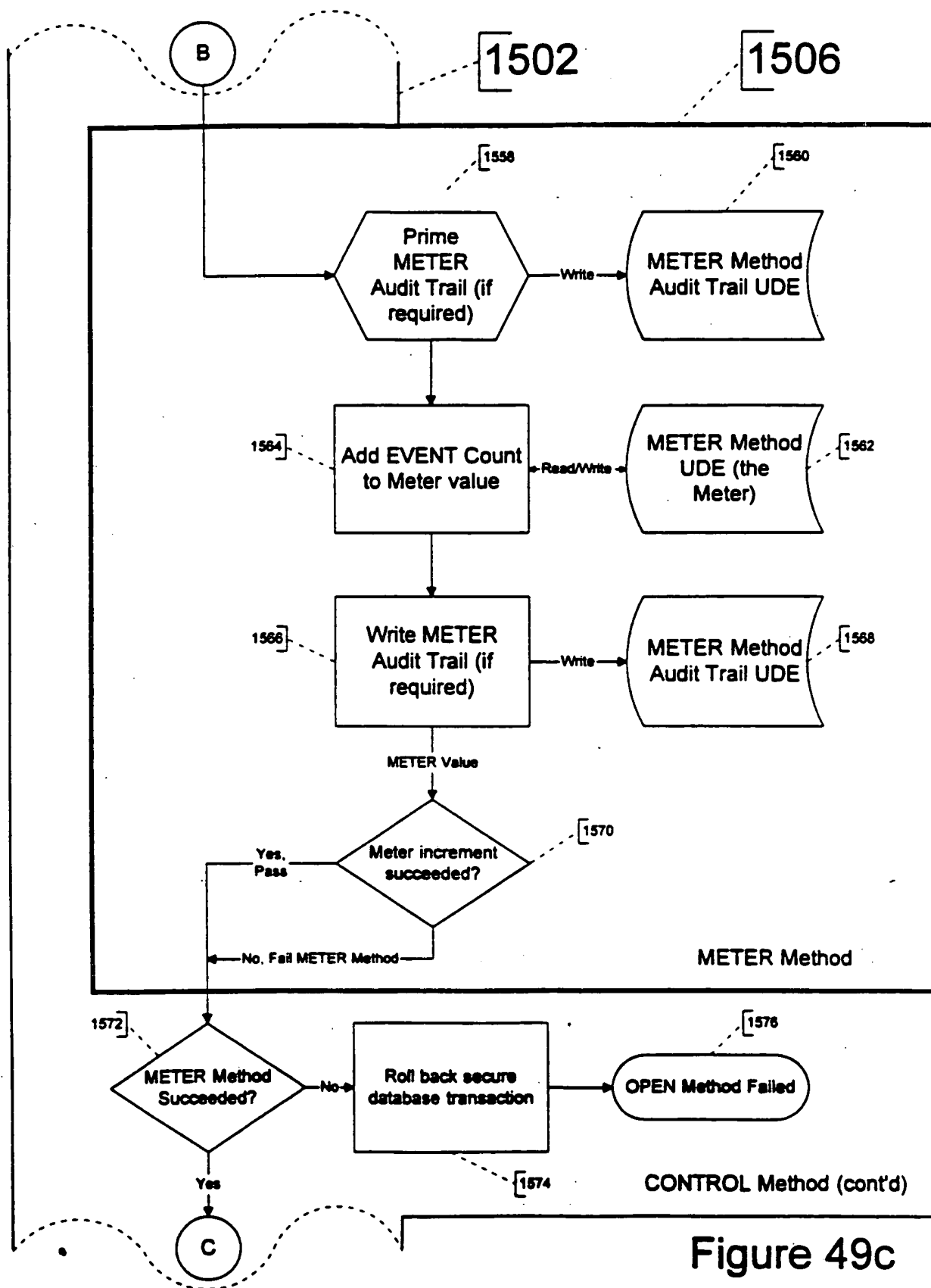


Figure 49b

05670801-050404





```

graph TD
    D((D)) --> 1598{{Prime BUDGET Audit Trail (if required)}}
    1598 -- Write --> 1600[BUDGET Method Audit Trail UDE]
    1598 --> 1602[Add Billing Amount to Budget value]
    1602 <--> |Read/Write| 1604[BUDGET Method UDE (the Budget)]
    1602 --> 1606[Write BUDGET Audit Trail (if required)]
    1606 -- Write --> 1608[BUDGET Method Audit Trail UDE]
    1606 --> 1610{BUDGET value out of range?}
    1610 -- "Yes, FAILS" --> 1612{Budget Method returns OK?}
    1610 -- "No, Falls" --> 1612
    1612 -- Yes --> E((E))
    1612 -- No --> 1614[Roll back secure database transaction]
    1614 --> 1616([OPEN Method Failed])
    1614 --> CONTROL[CONTROL Method (cont'd)]

```

Figure 49e

### Figure 49e

09870801-060401

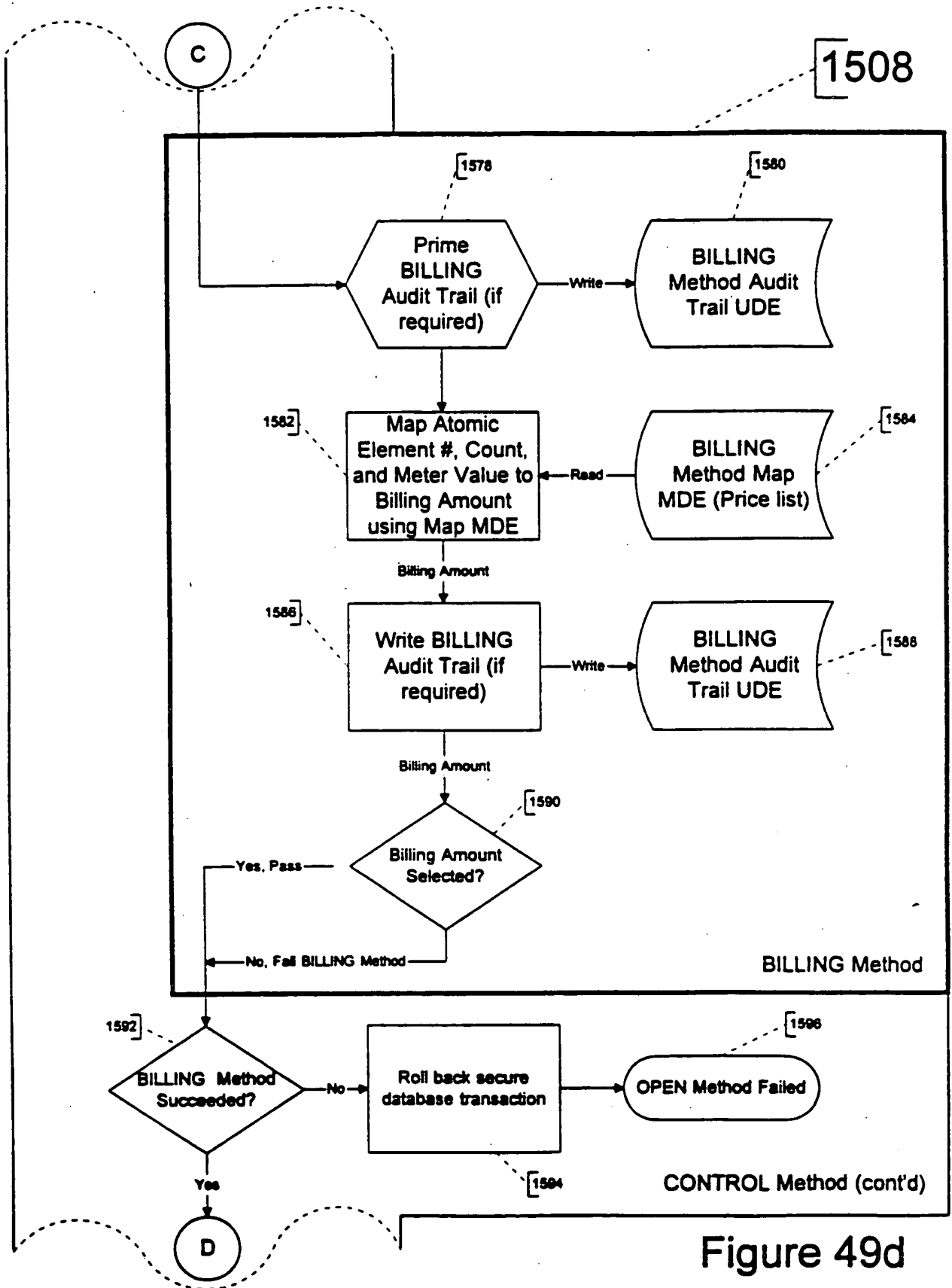


Figure 49d

09870801-060401

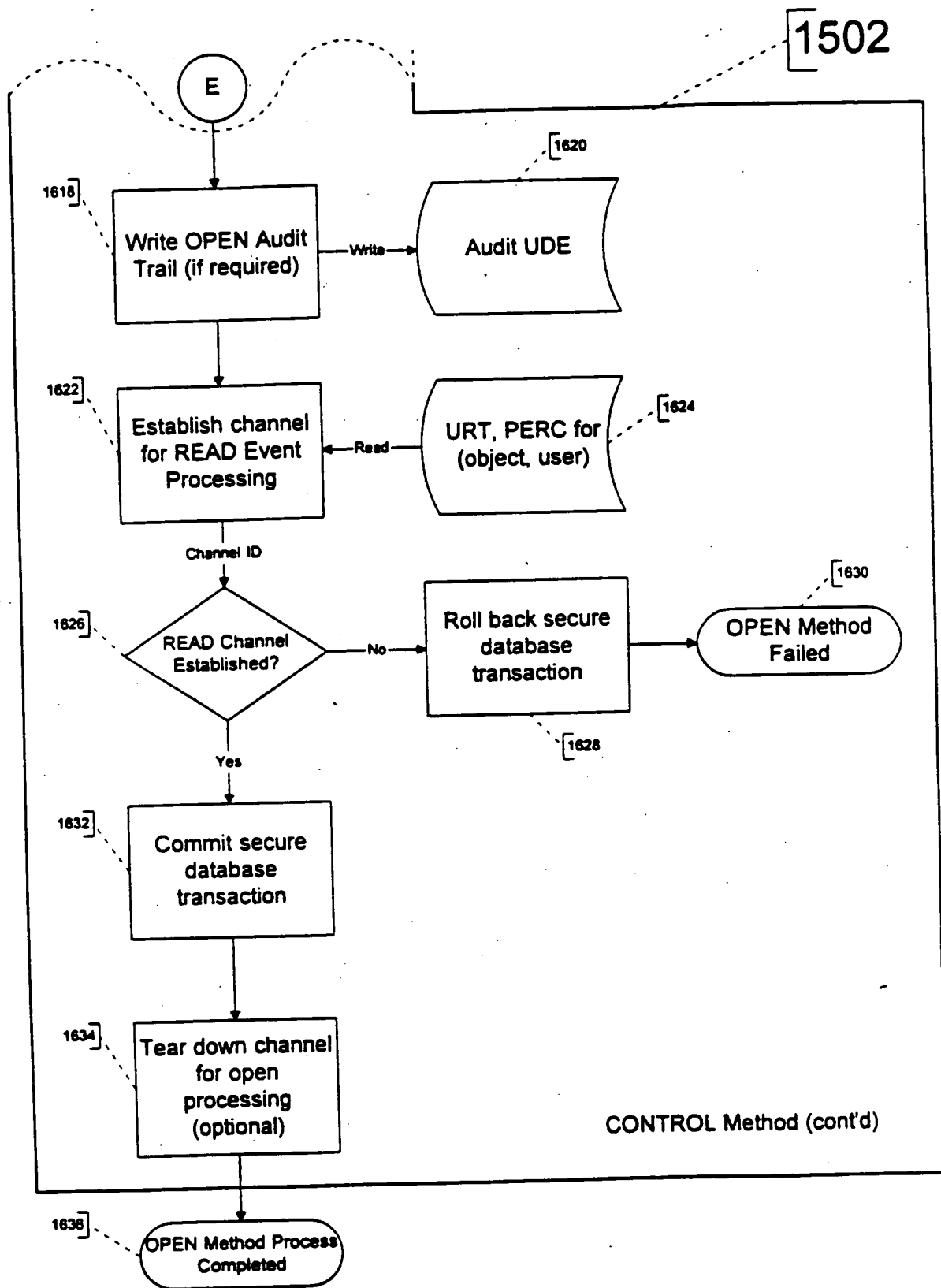


Figure 49f

# READ Method Use Process Flow

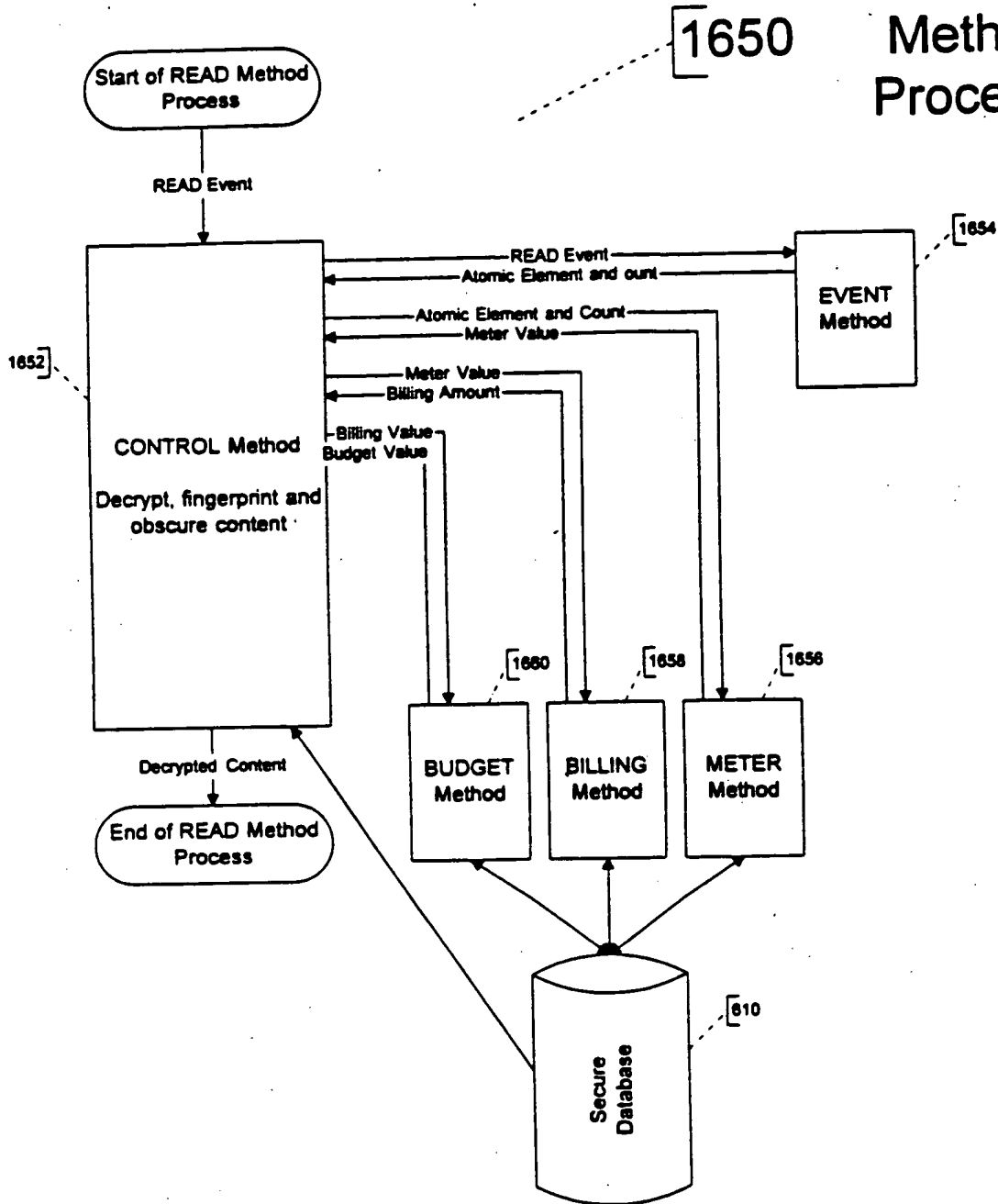


Figure 50

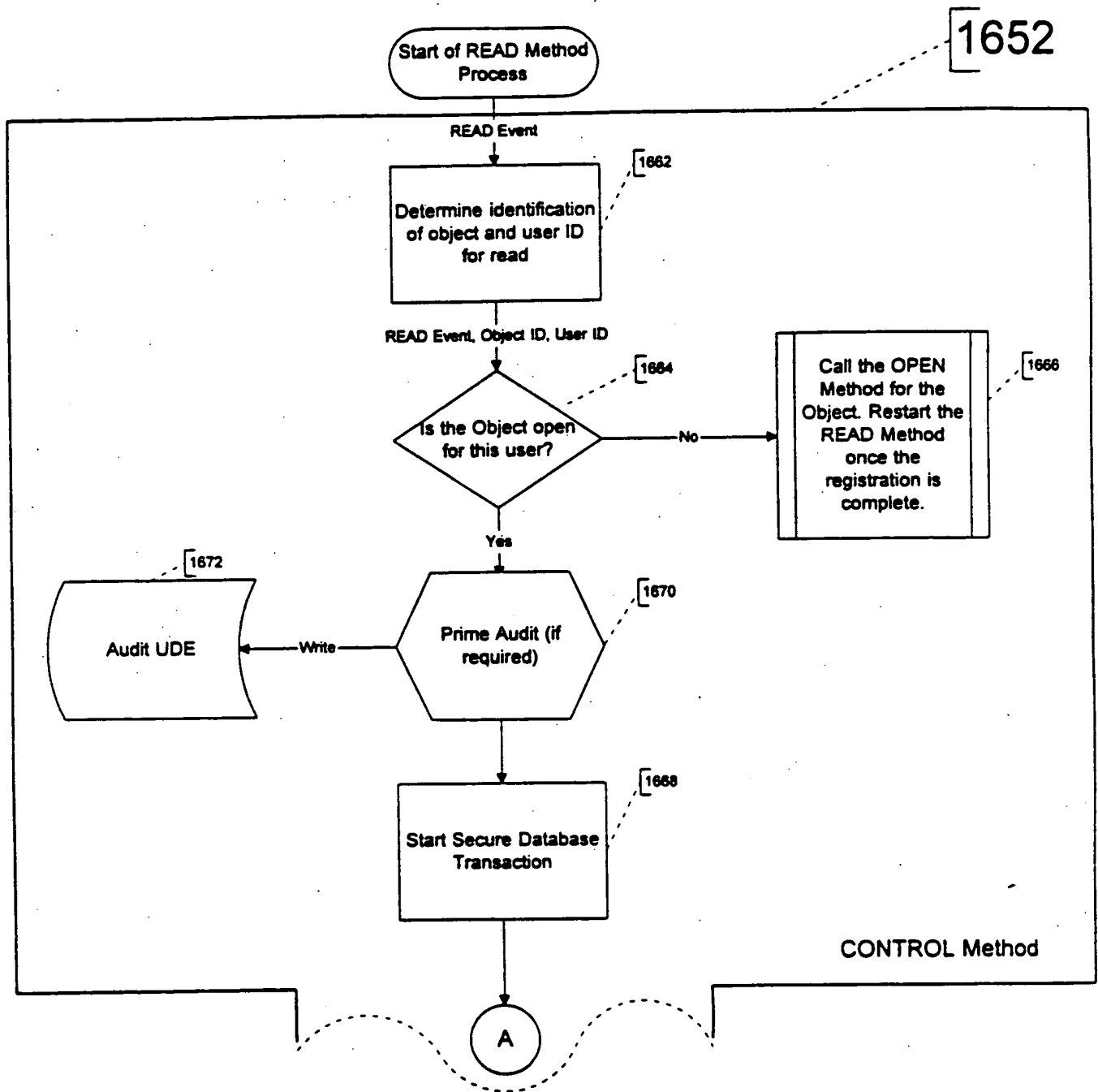


Figure 50a

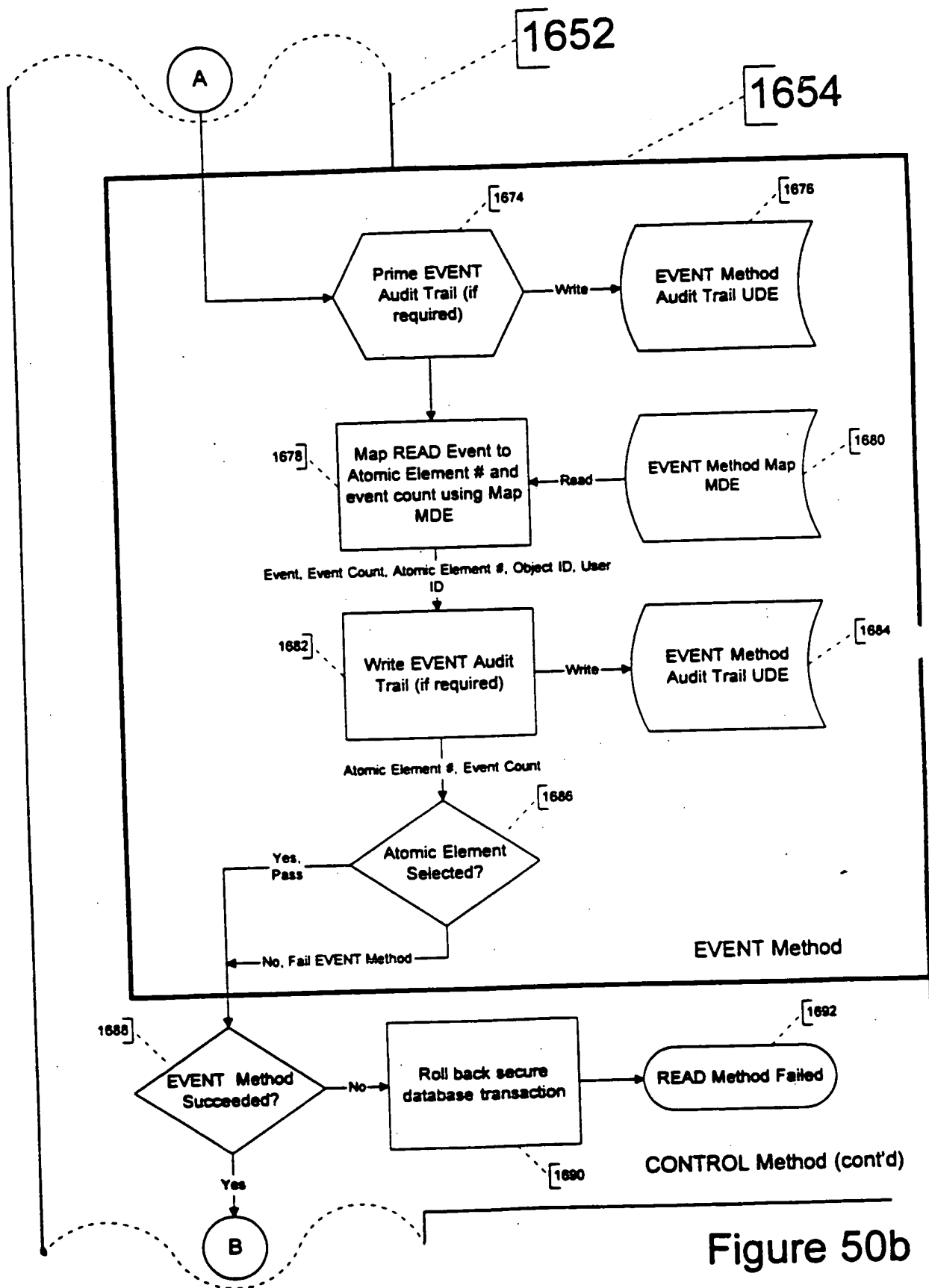


Figure 50b

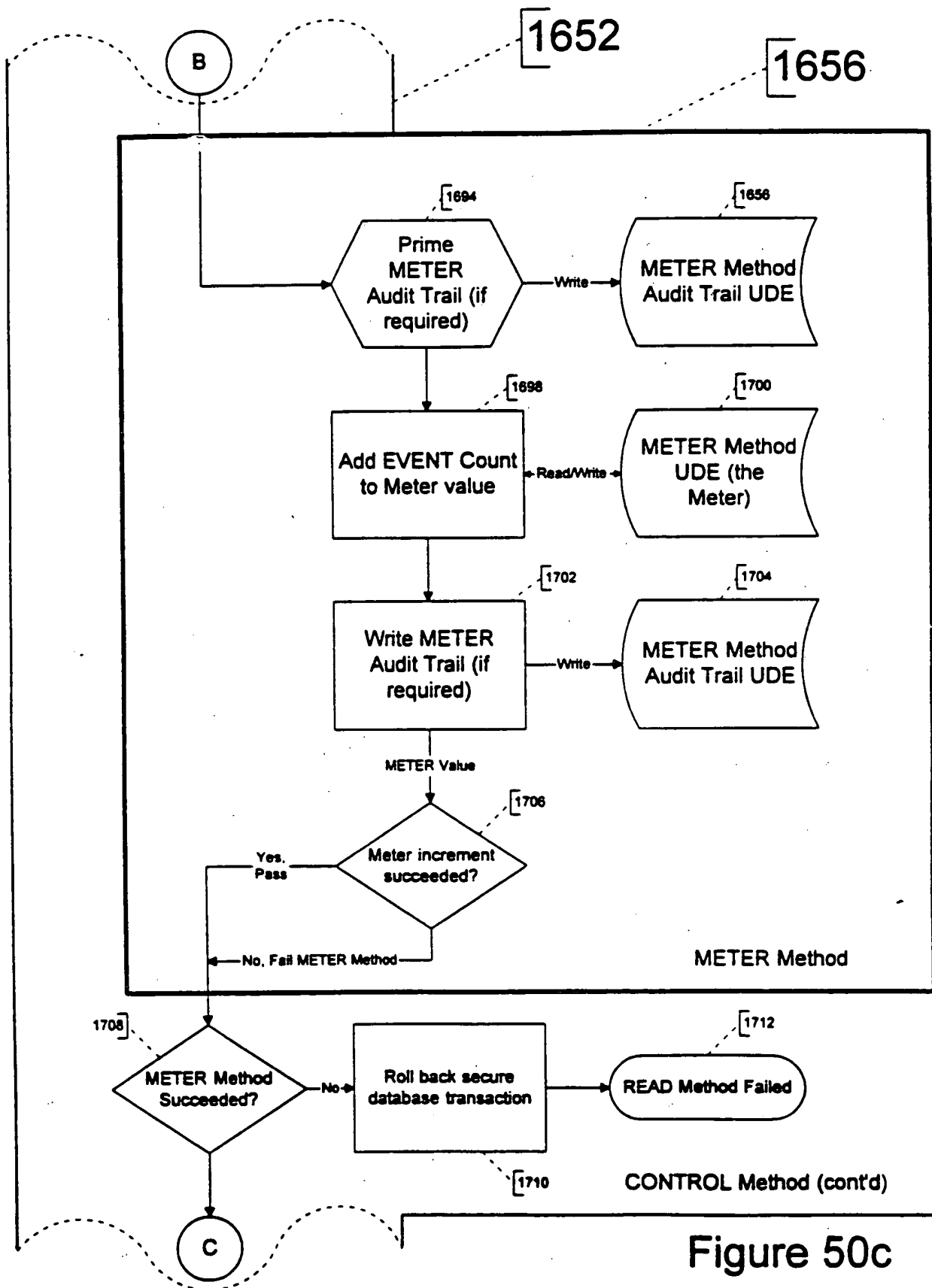
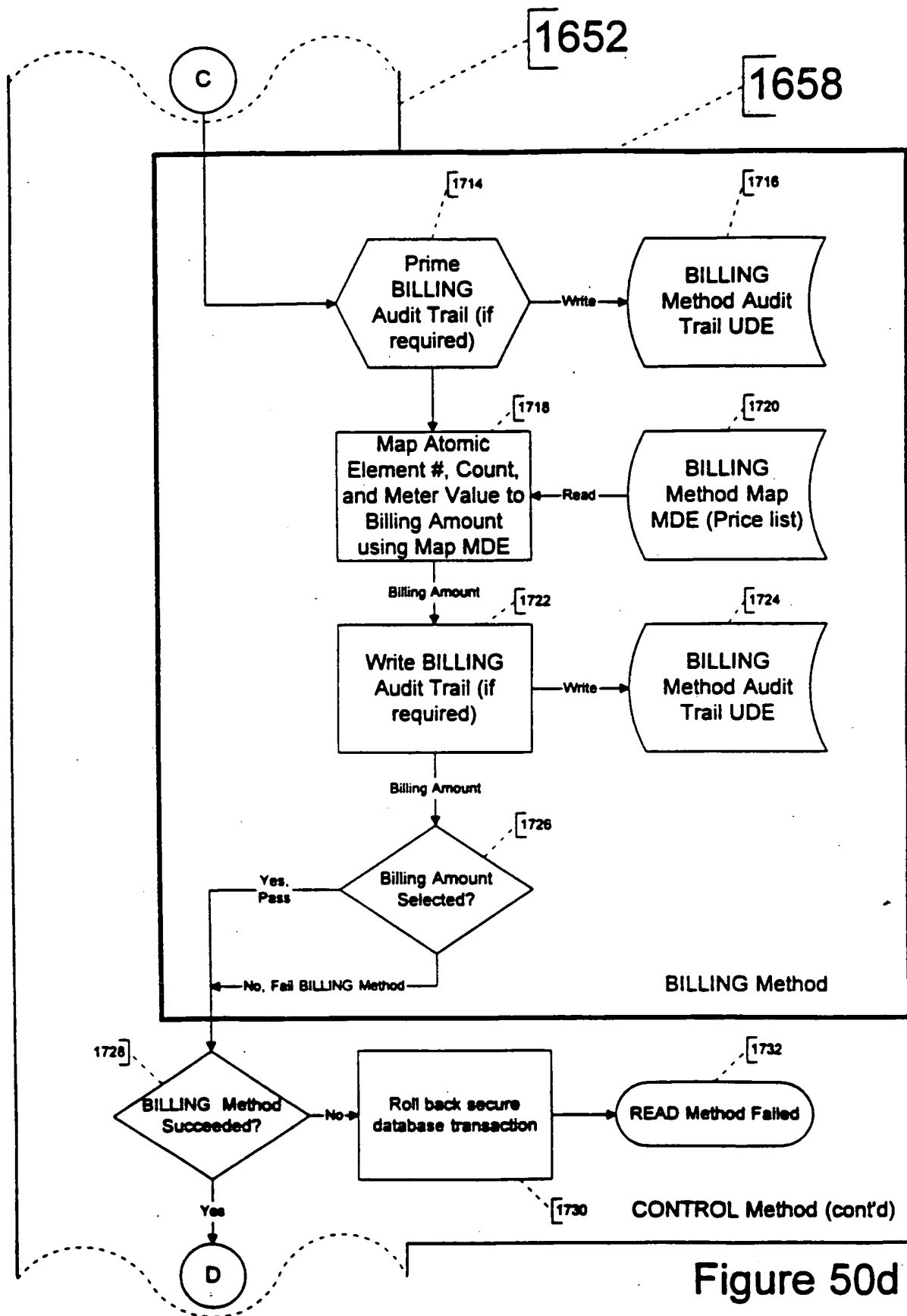


Figure 50c





09870801-060404

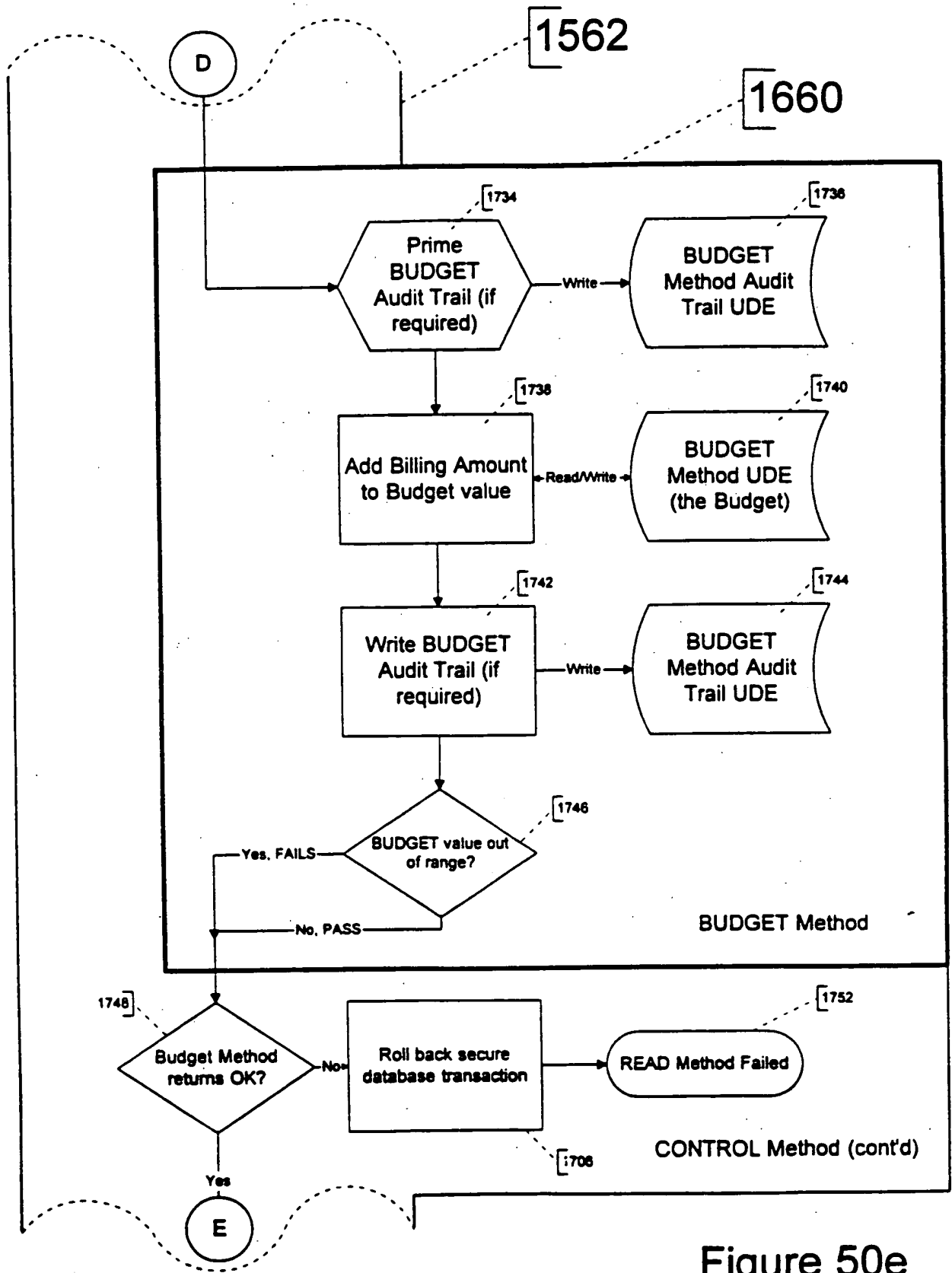
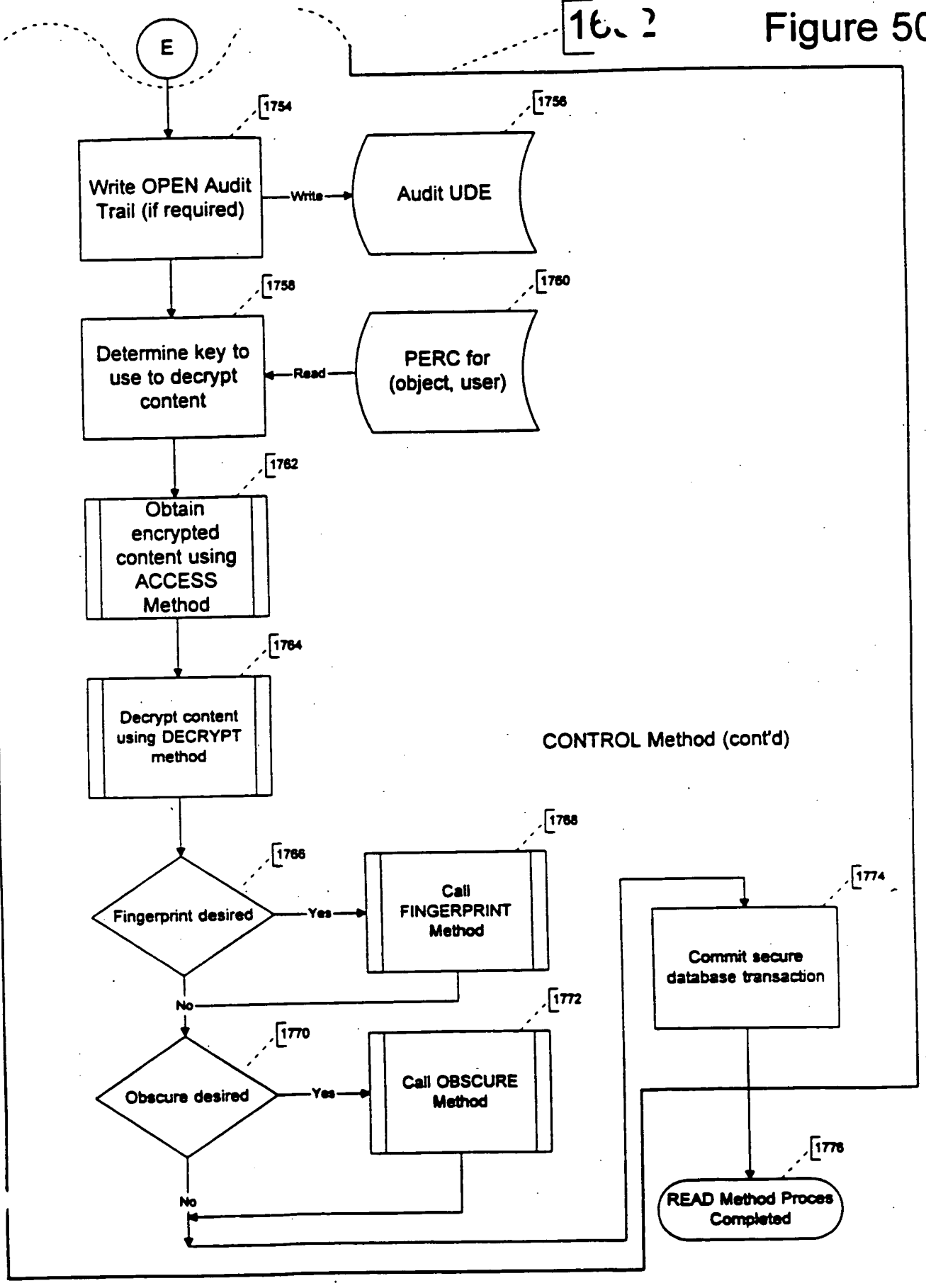


Figure 50e

09870804-060404



# WRITE Method Use Process Flow

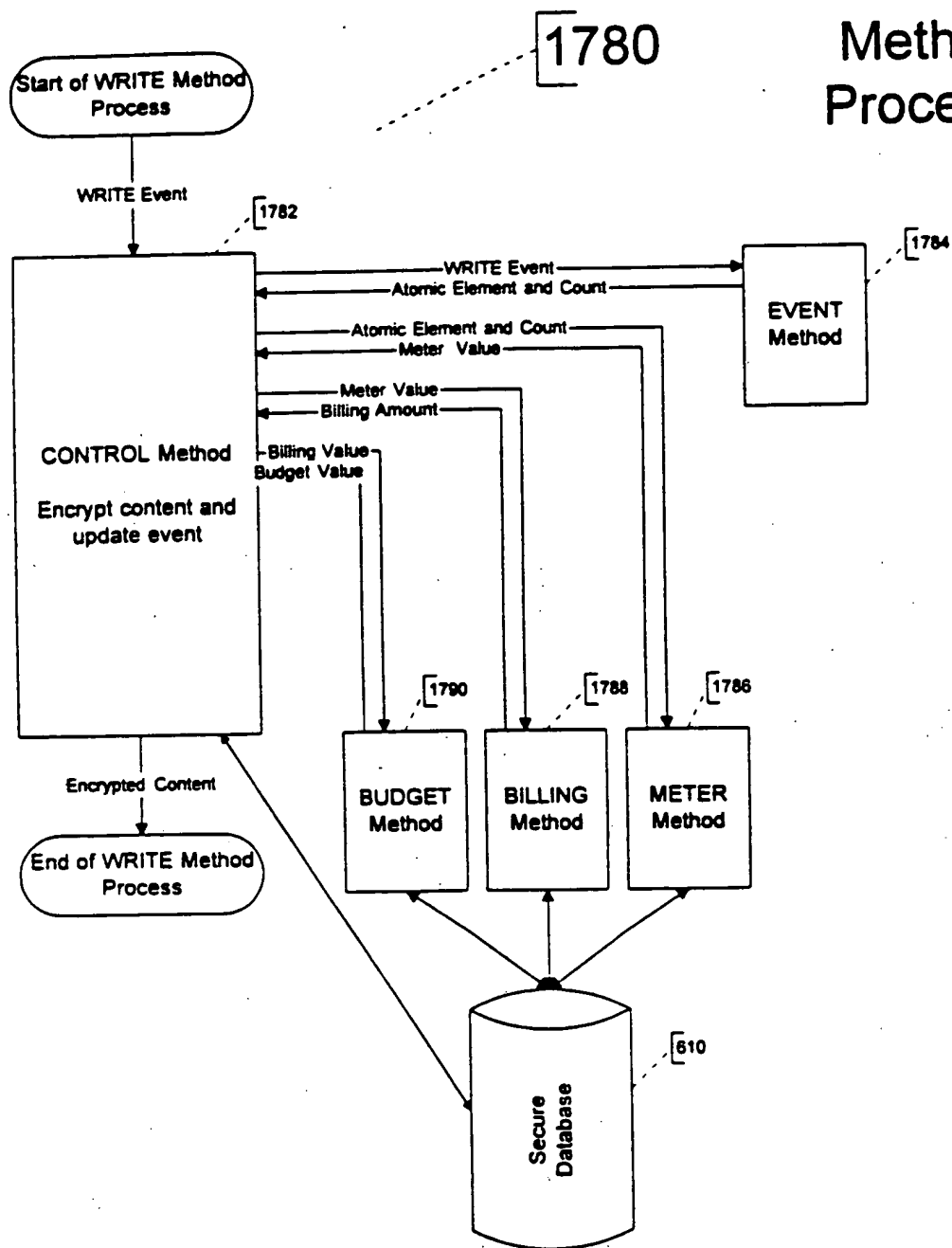


Figure 51

1780

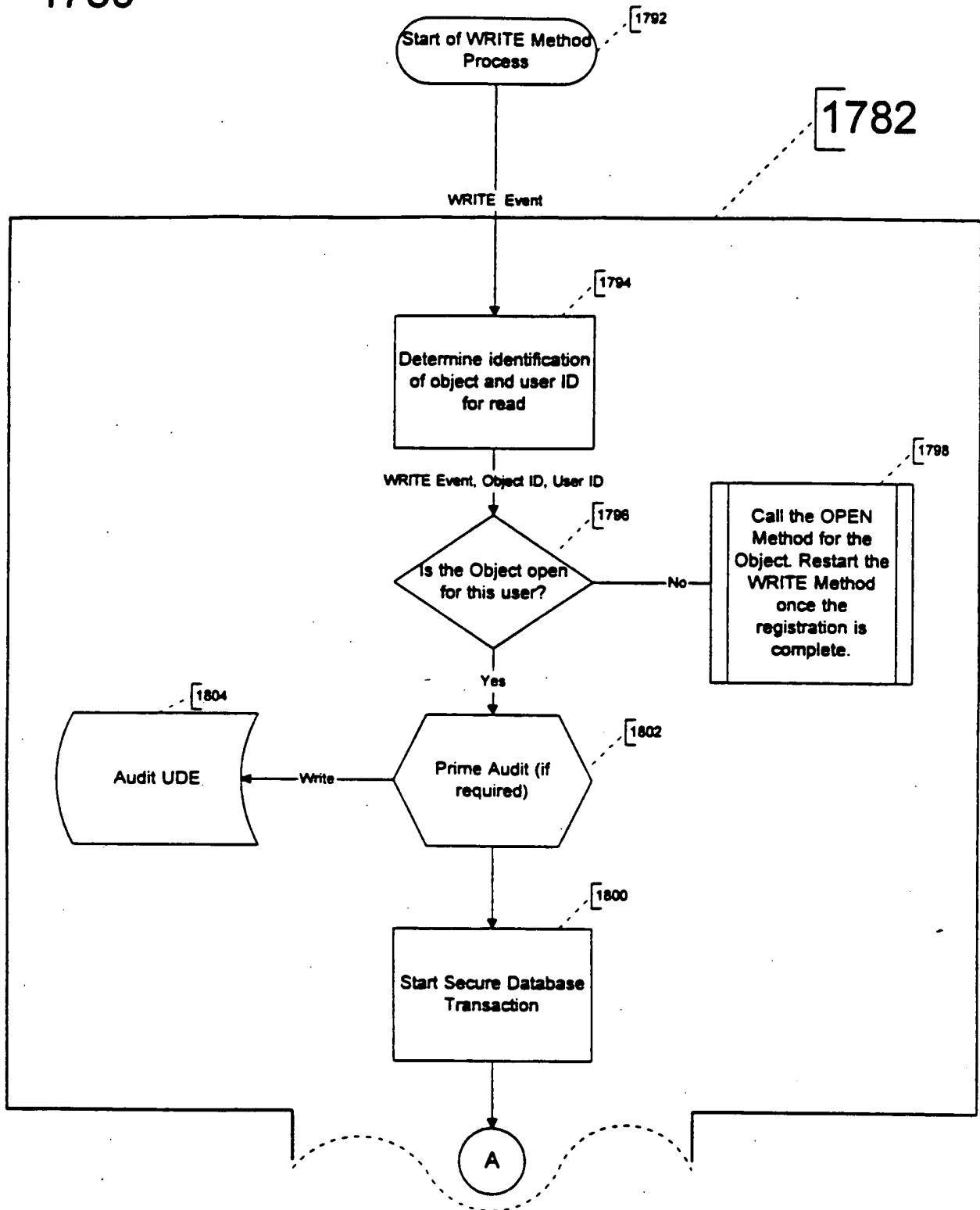
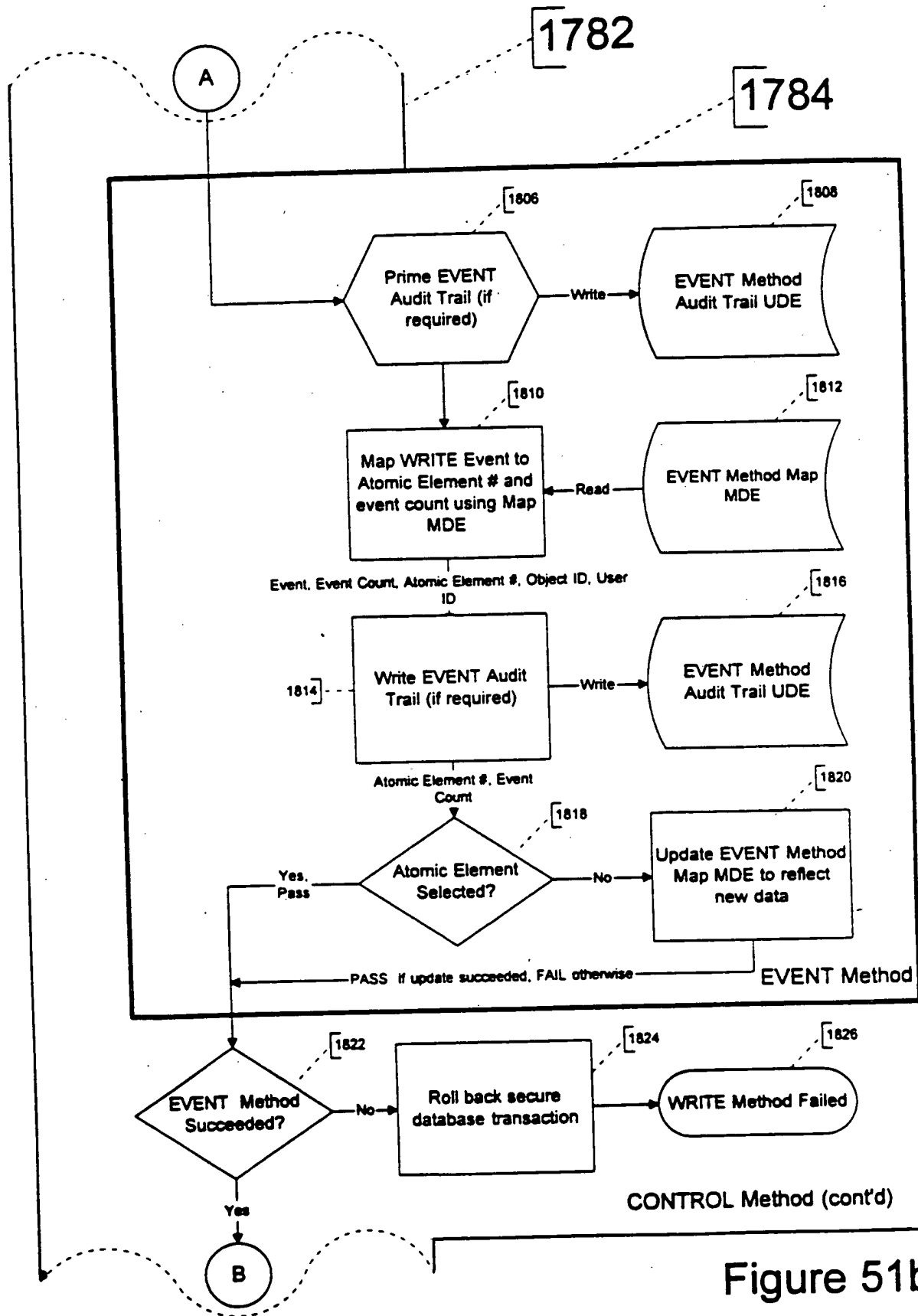


Figure 51a



05670801-060101

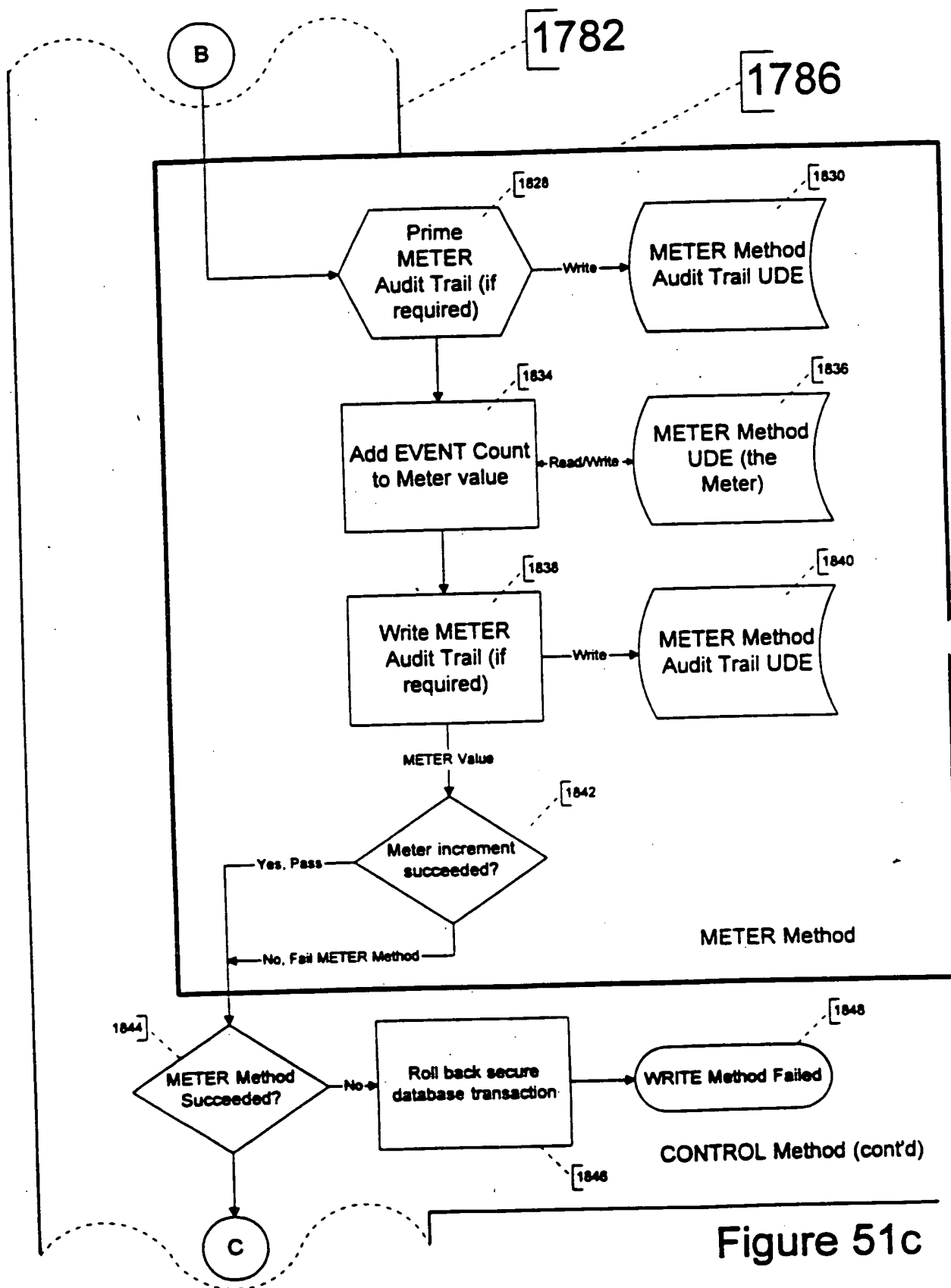


Figure 51c

09870301-050101

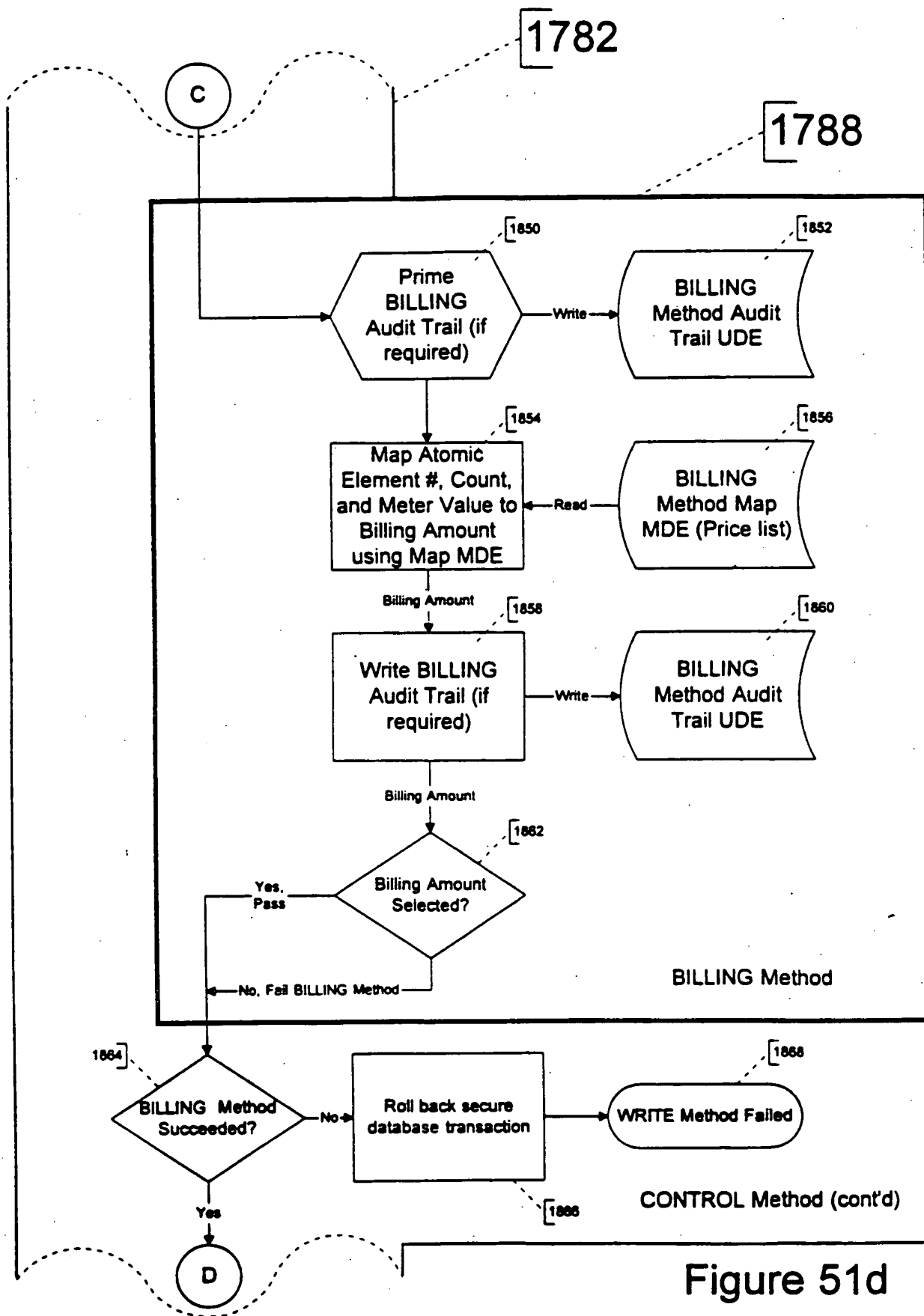


Figure 51d

09870904-050101

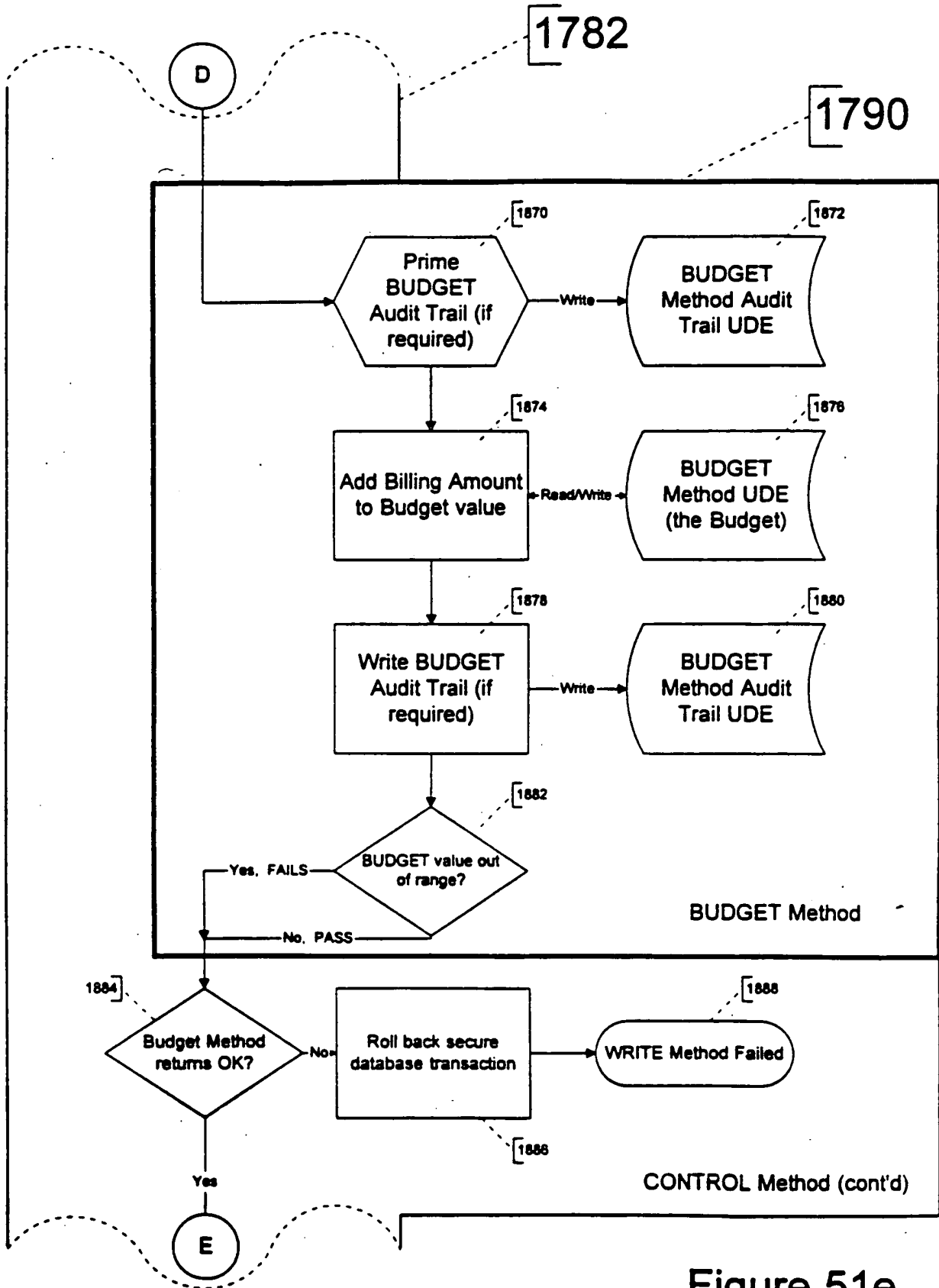


Figure 51e



09870801-060101

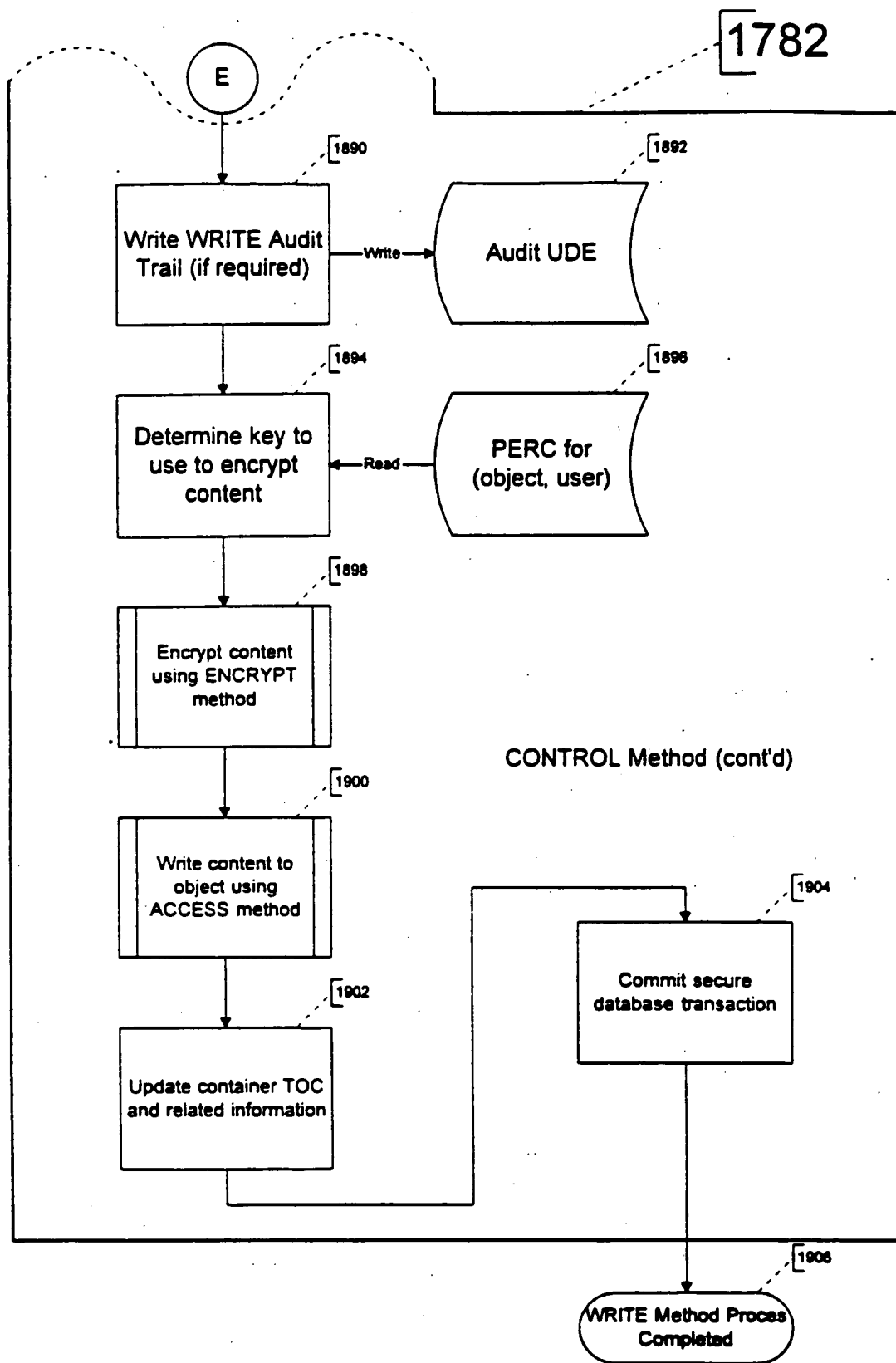
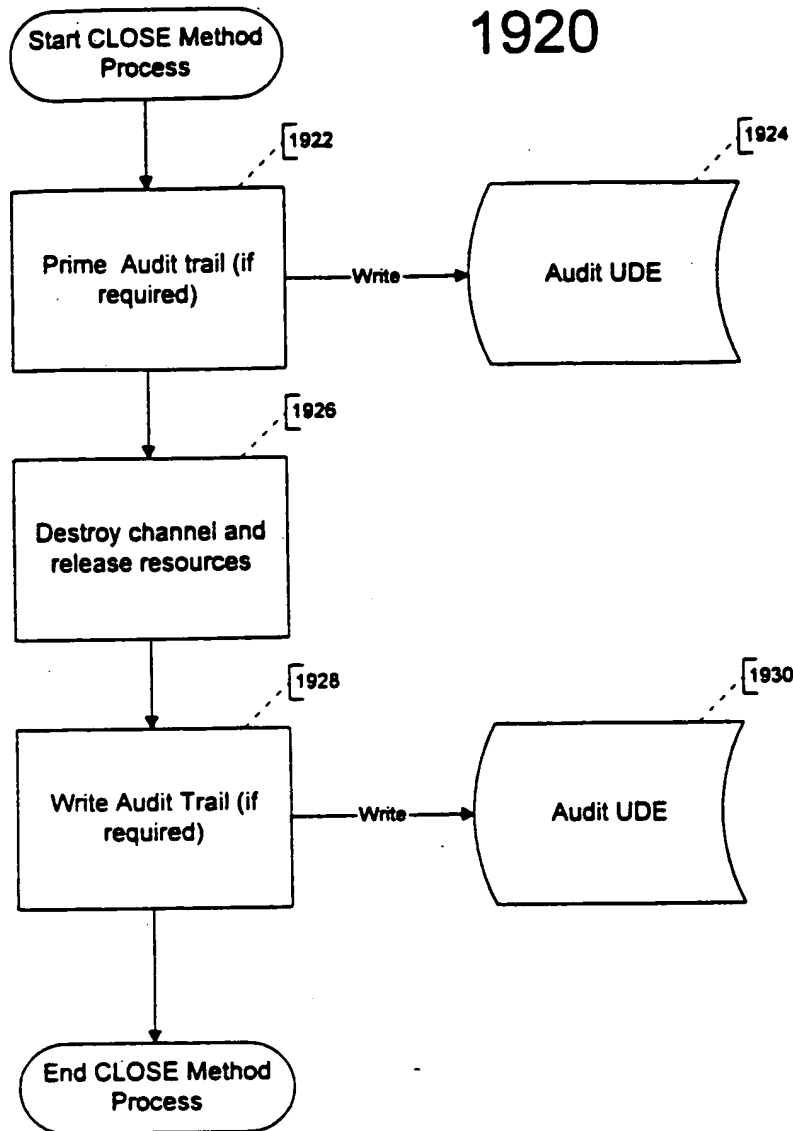


Figure 51f

09070801-050101



## CLOSE Method Process Flow

Figure 52

# EVENT Method Process Flows

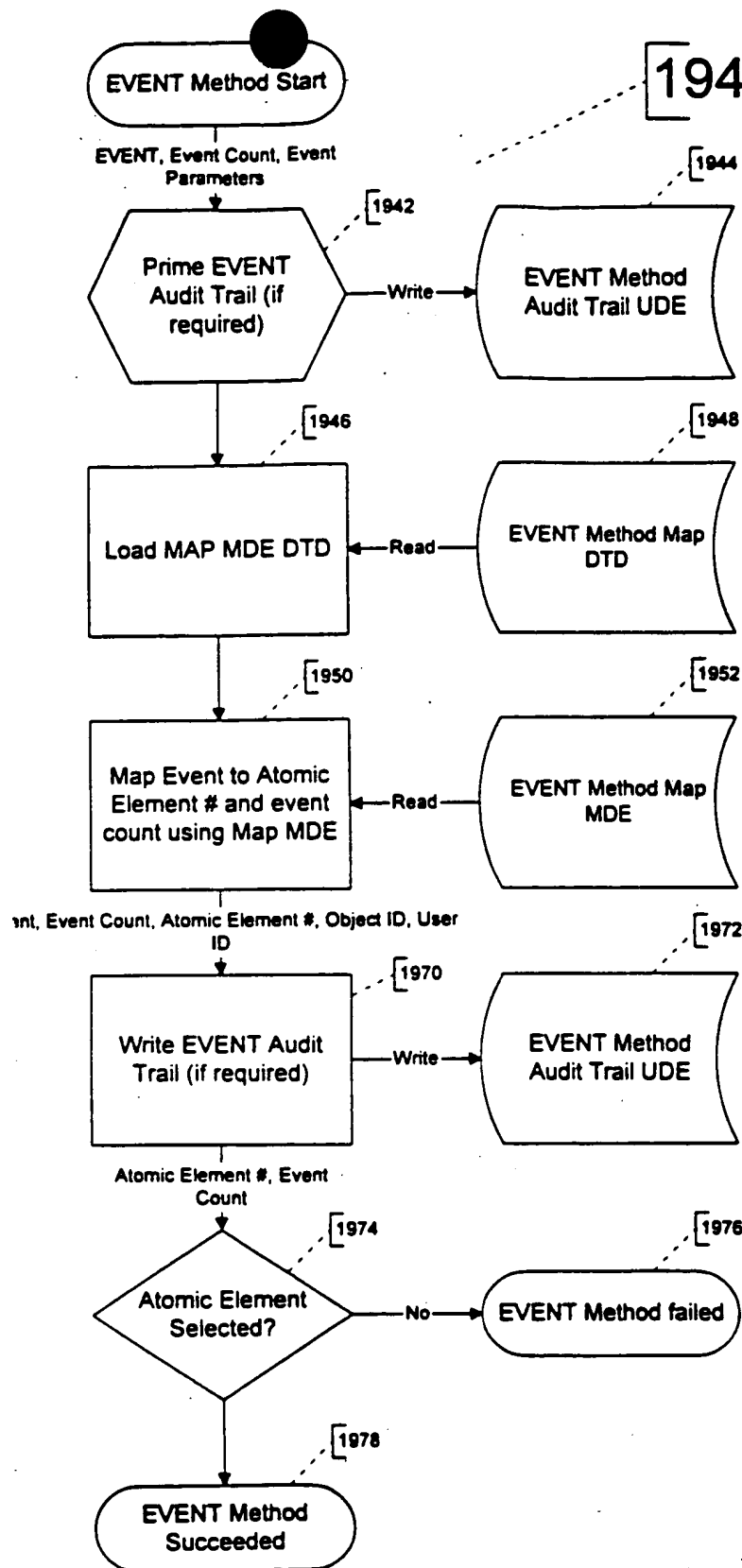


Figure 53a

# Sample EVENT Method Mapping Process

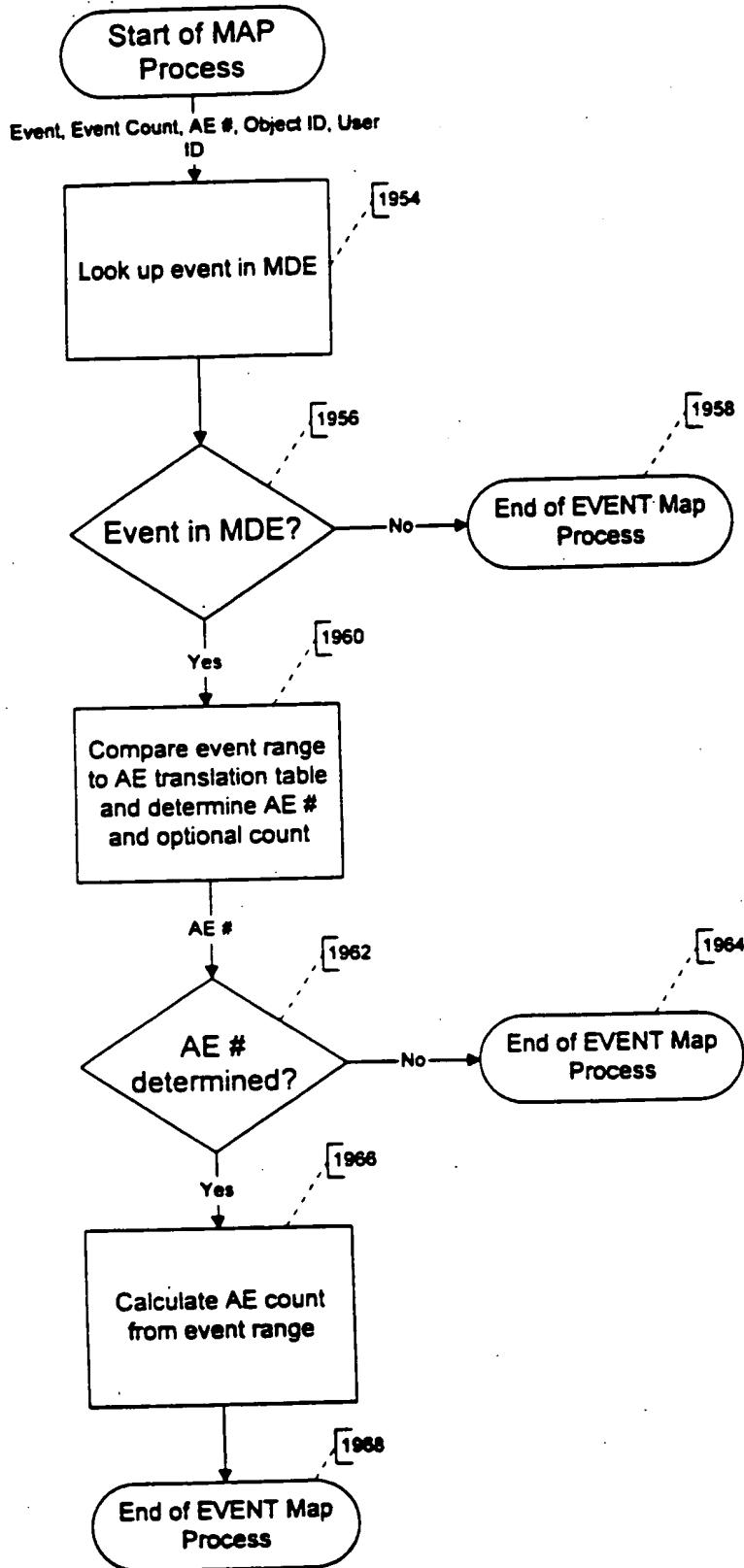


Figure 53t

# BILLING Method Process Flows

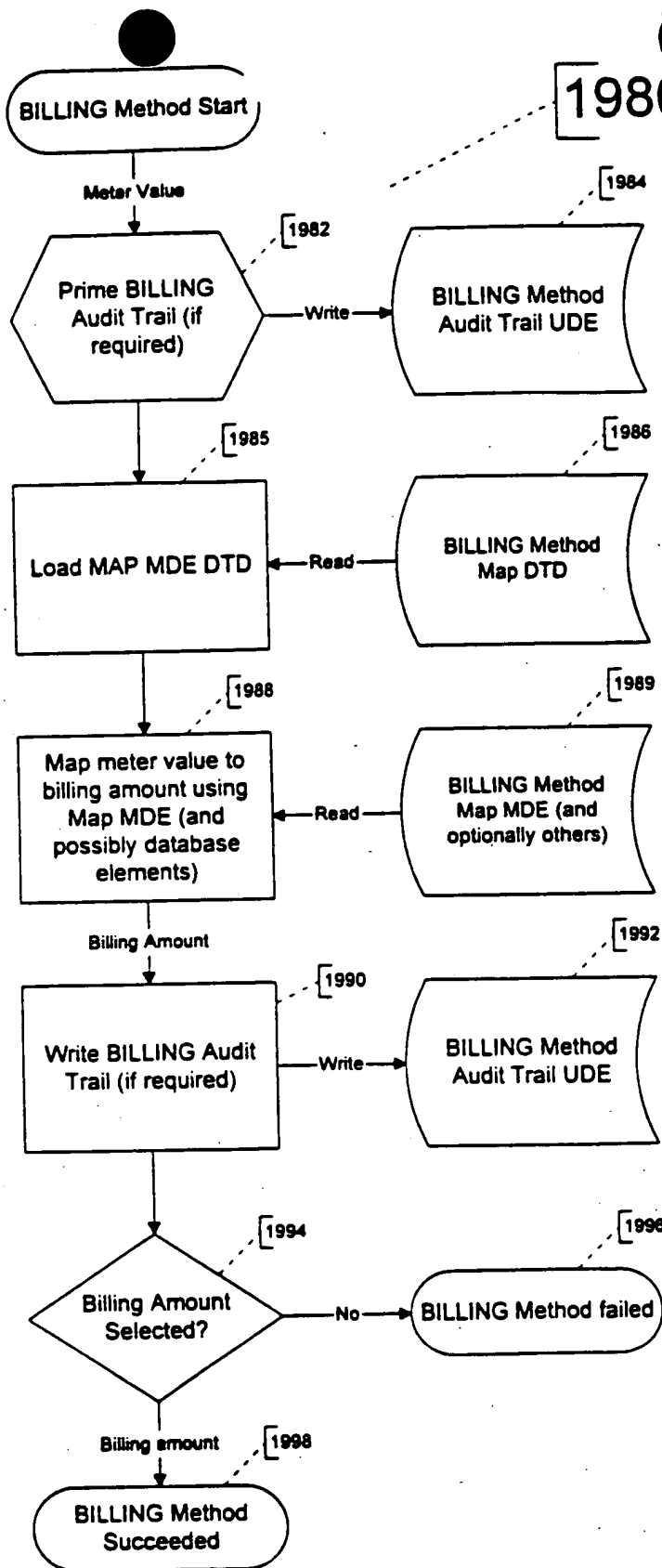


Figure 53c

# ACCESS Method Process Flow

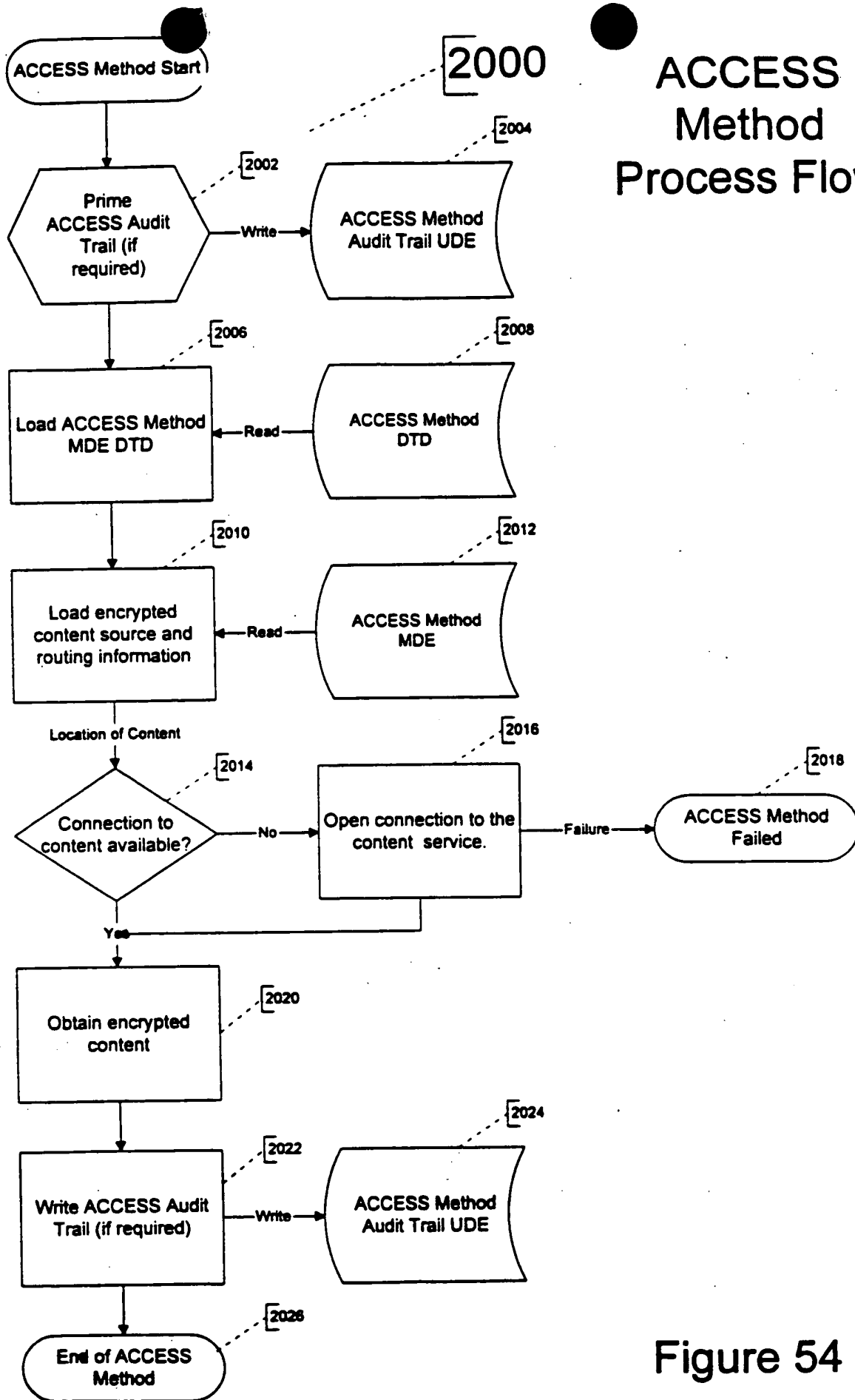


Figure 54

# DECRYPT Method Process Flow

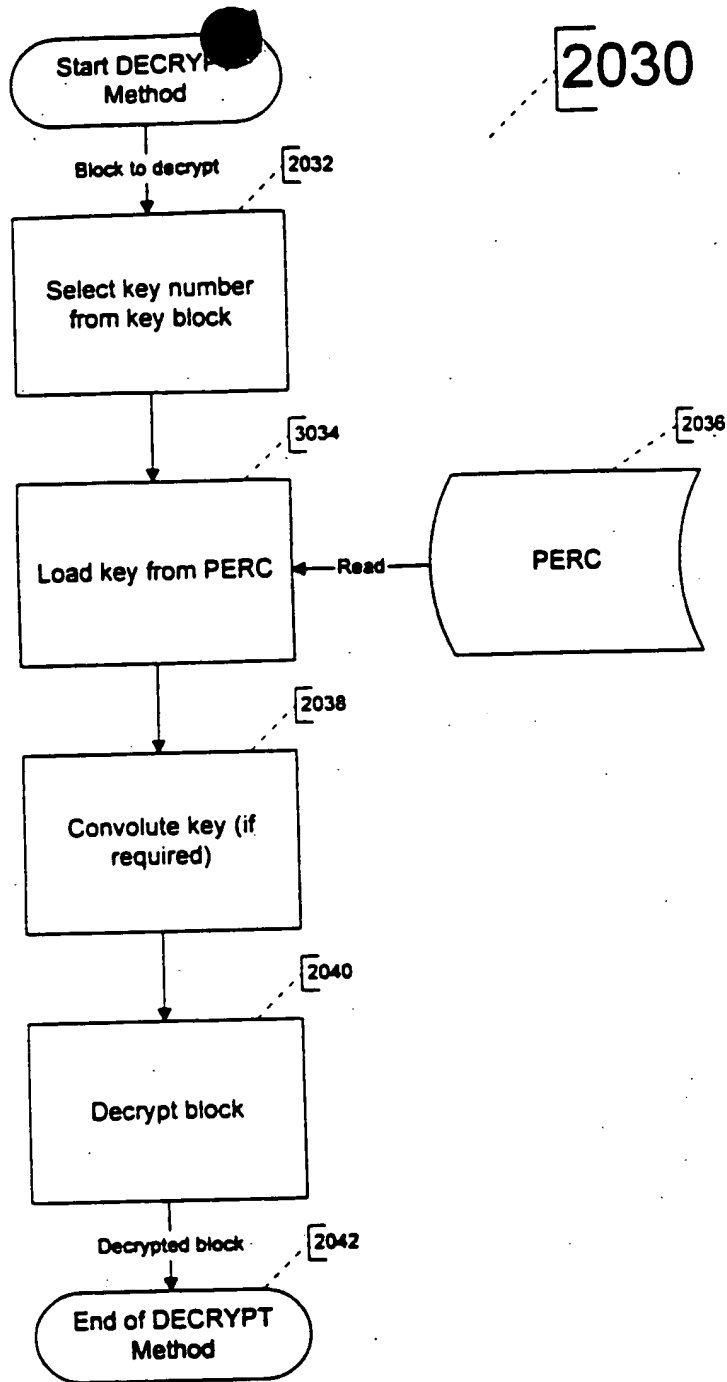


Figure 55a

# ENCRYPT Method Process Flow

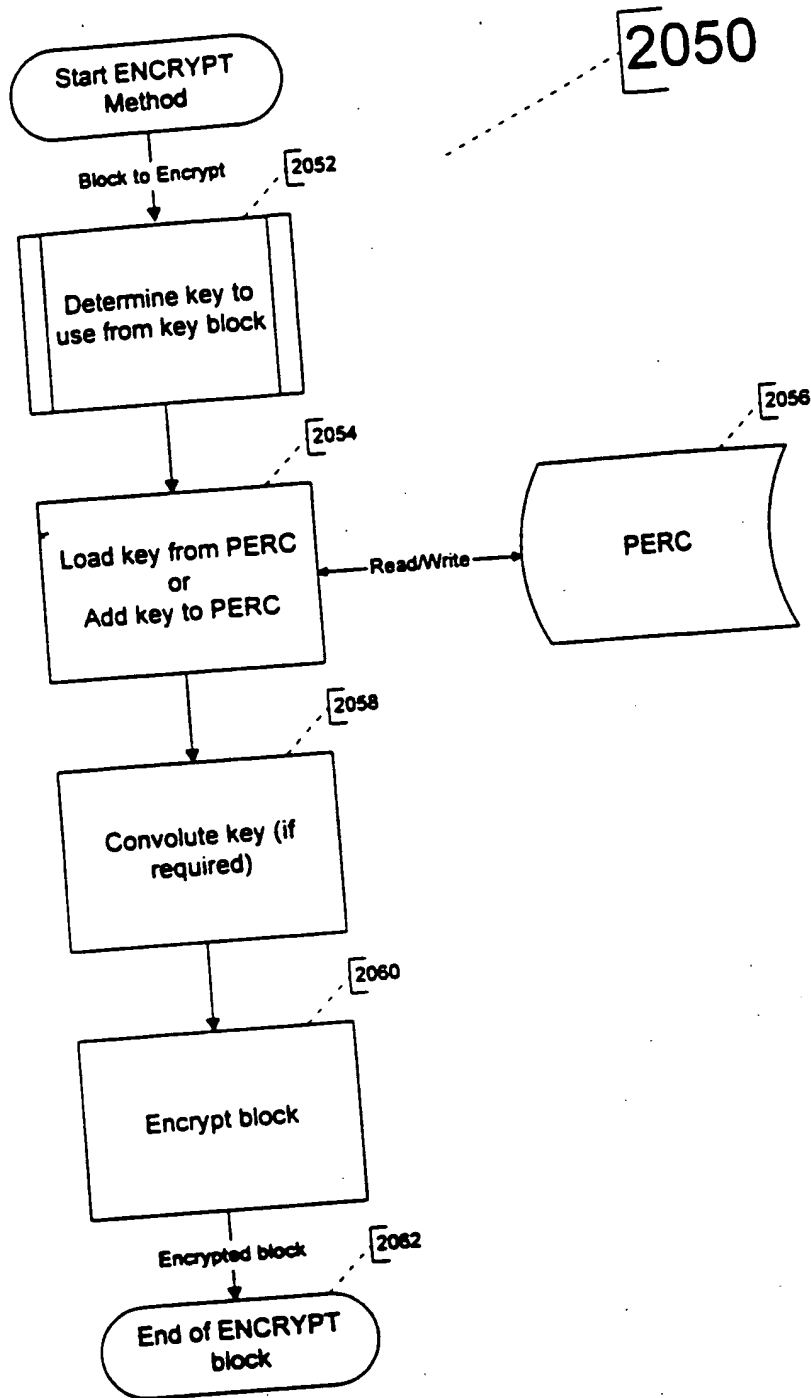


Figure 55b



# CONTENT Method Process Flow

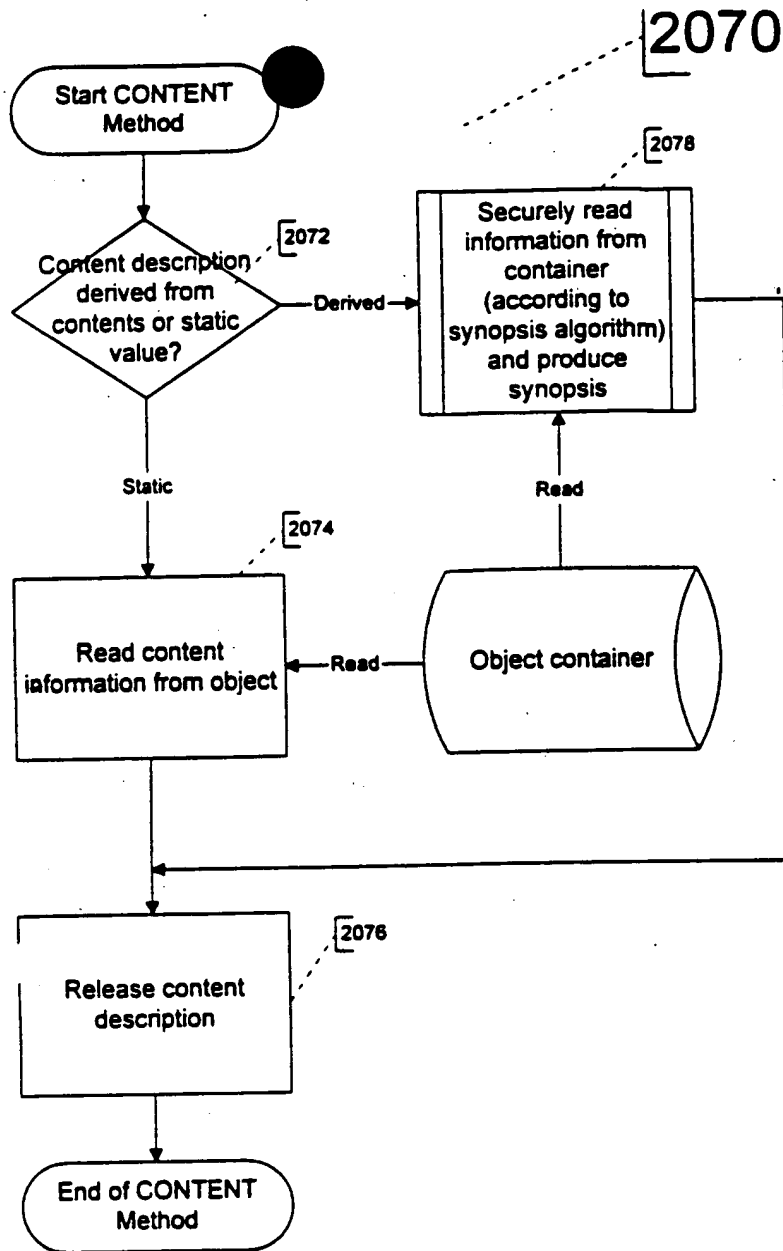


Figure 56

# EXTRACT Method Process Flow

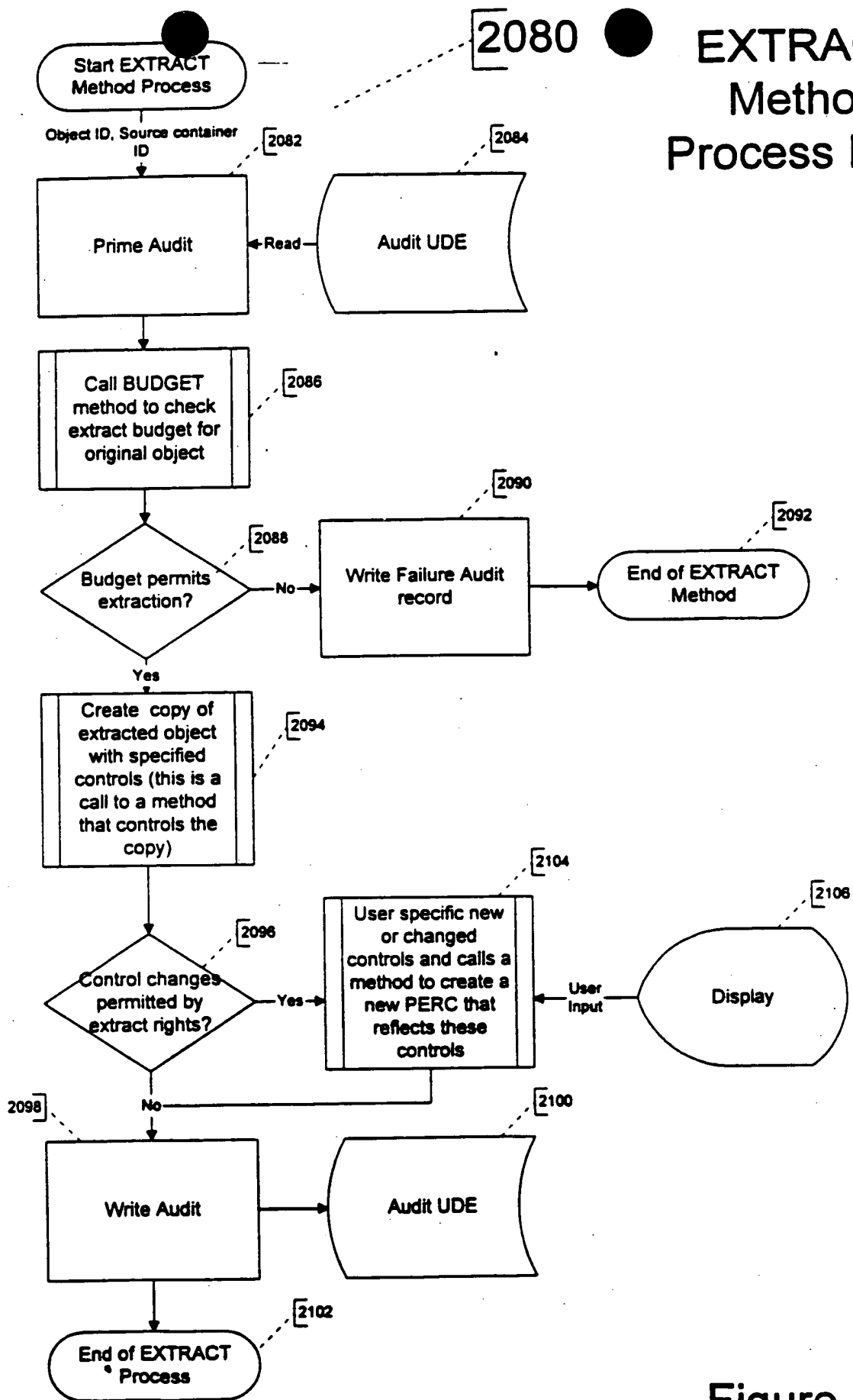


Figure 57a

# EMBED Method Process Flow

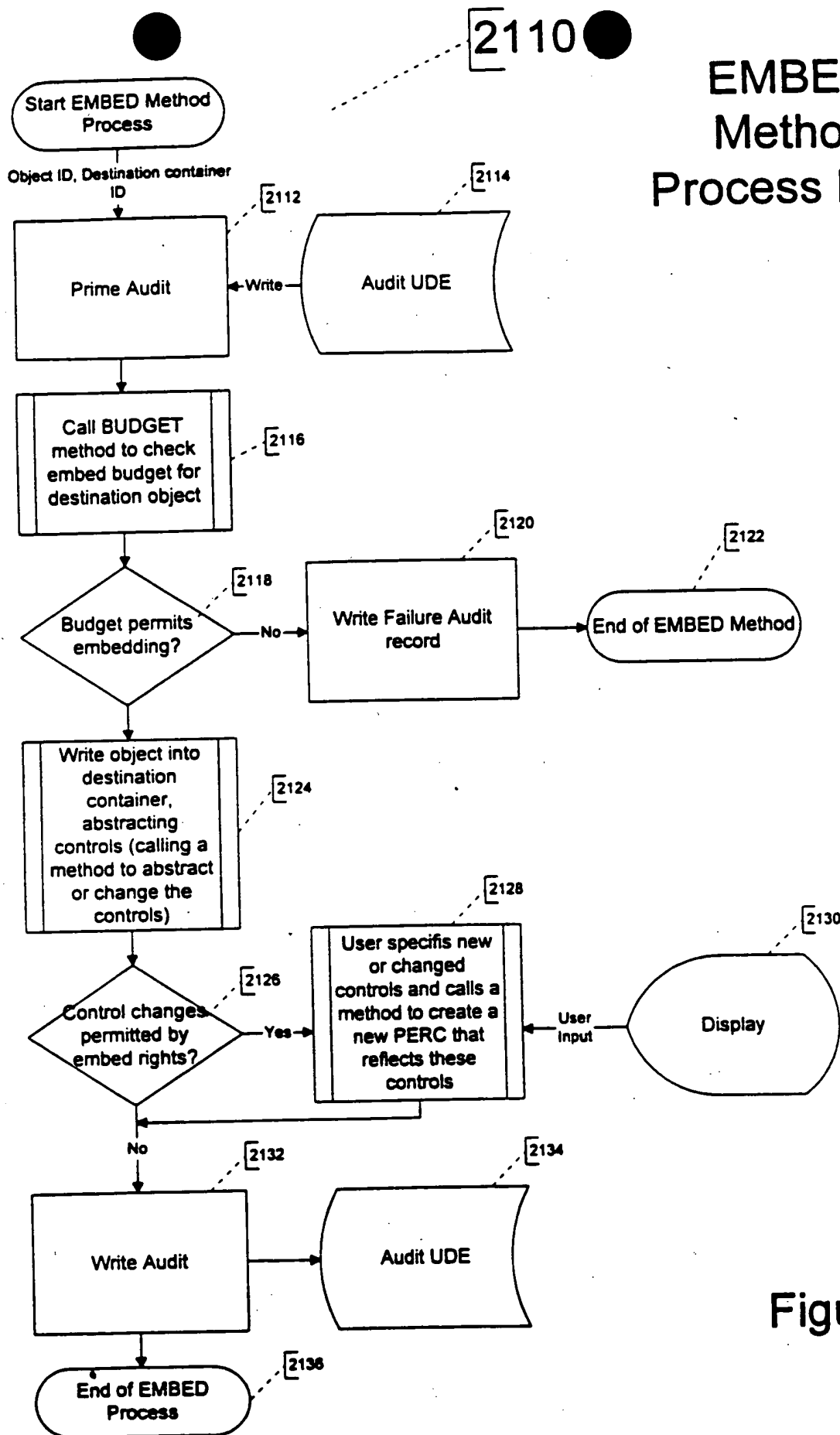


Figure 57b

# OBSCURE Method Process Flow

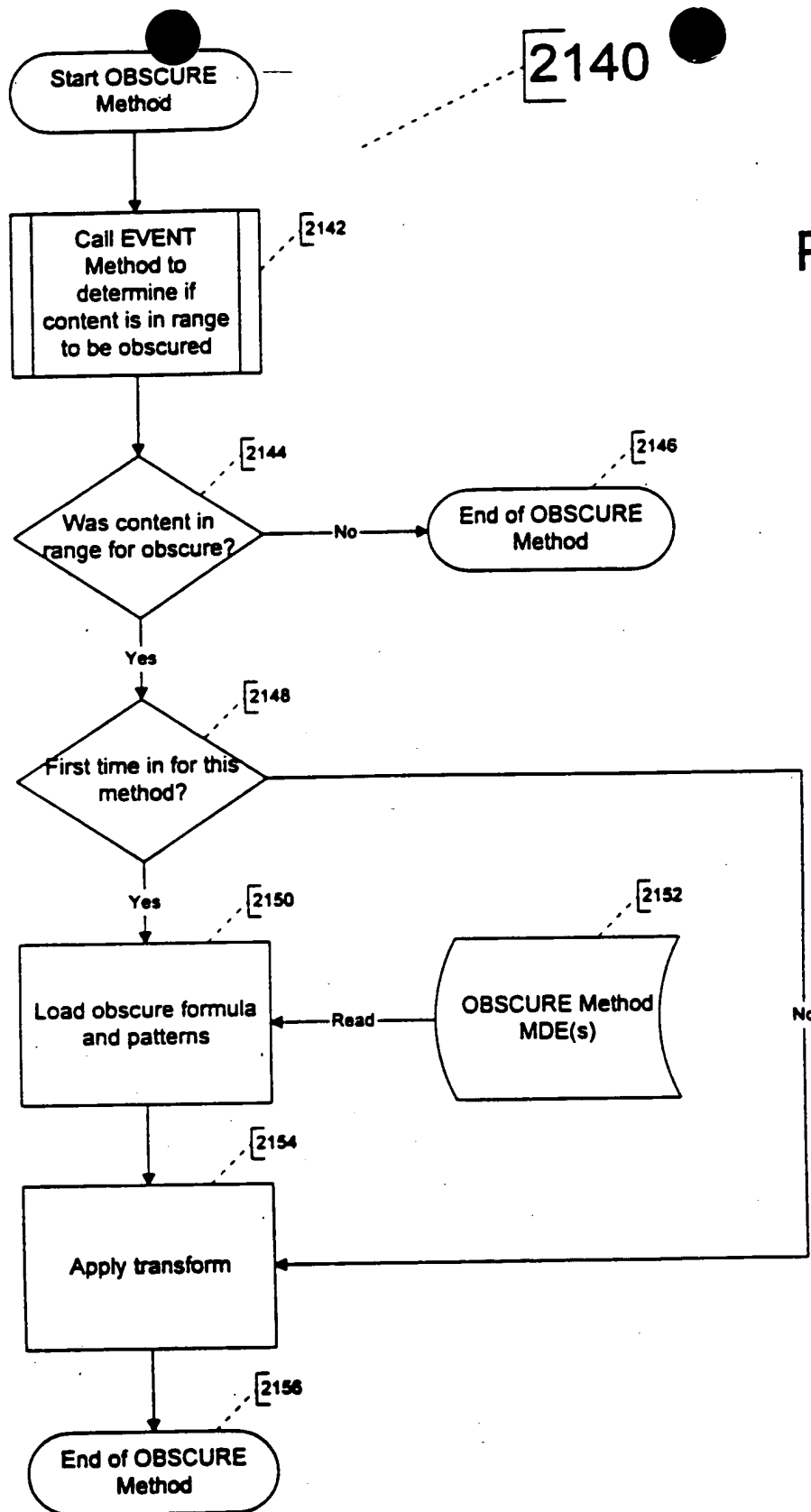


Figure 58a

# FINGERPRINT Method Process Flow

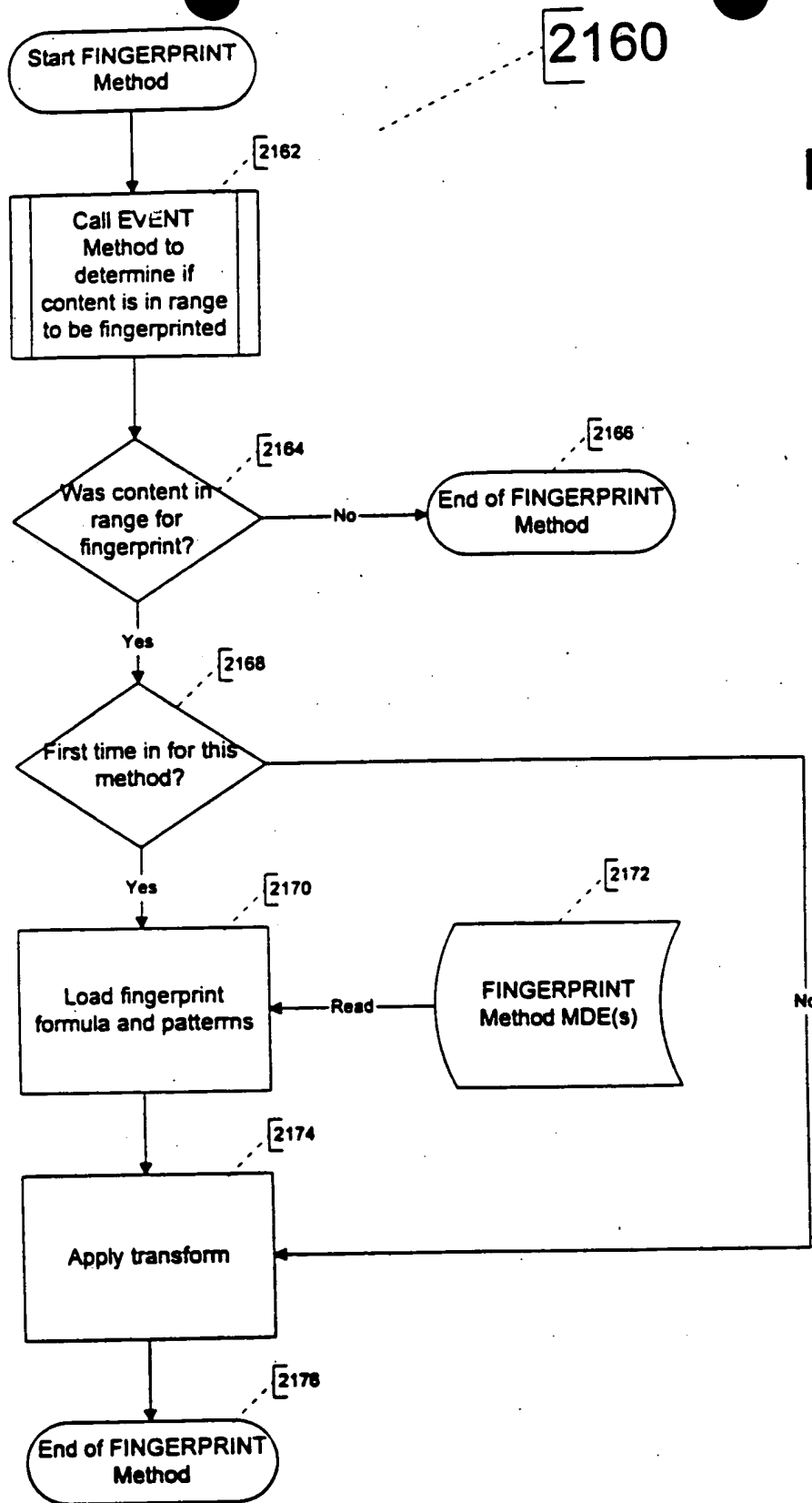


Figure 58b

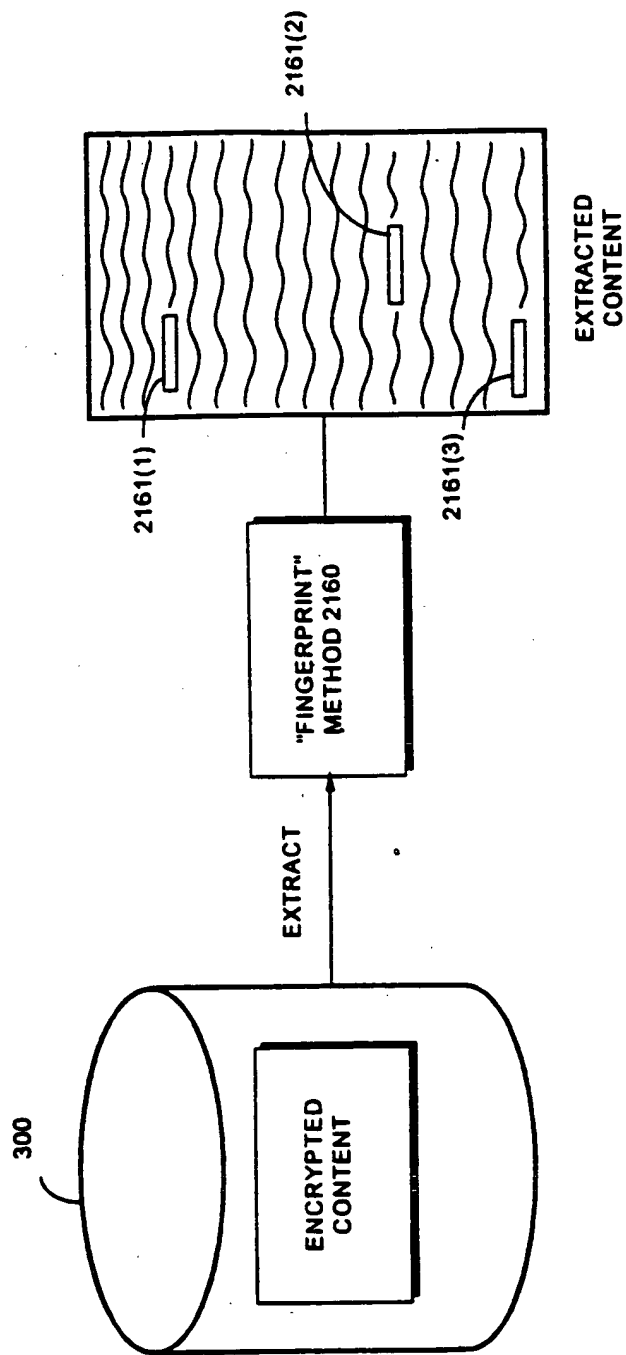


FIG. 58C

# DESTROY Method Process Flow

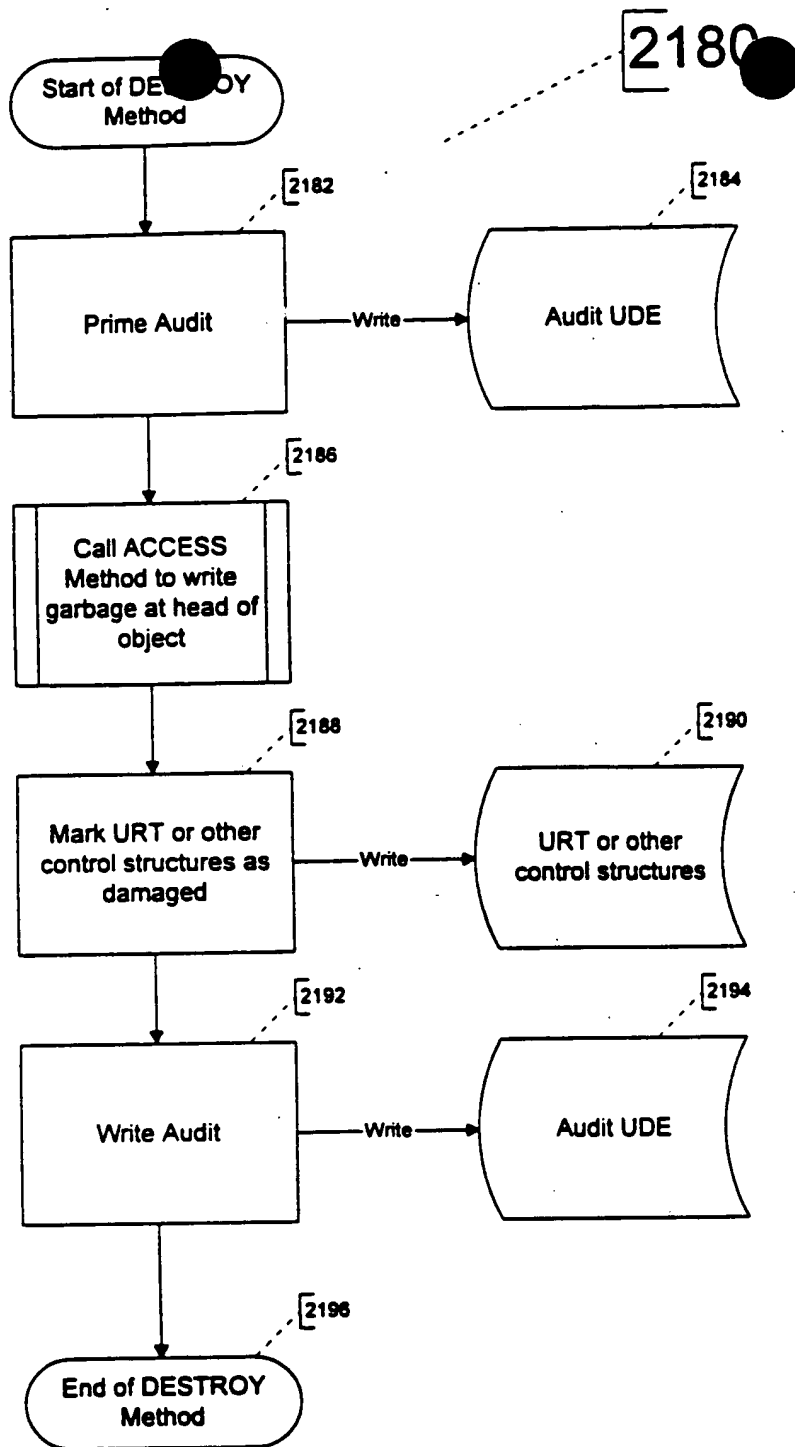


Figure 59

# PANIC Method Process Flow

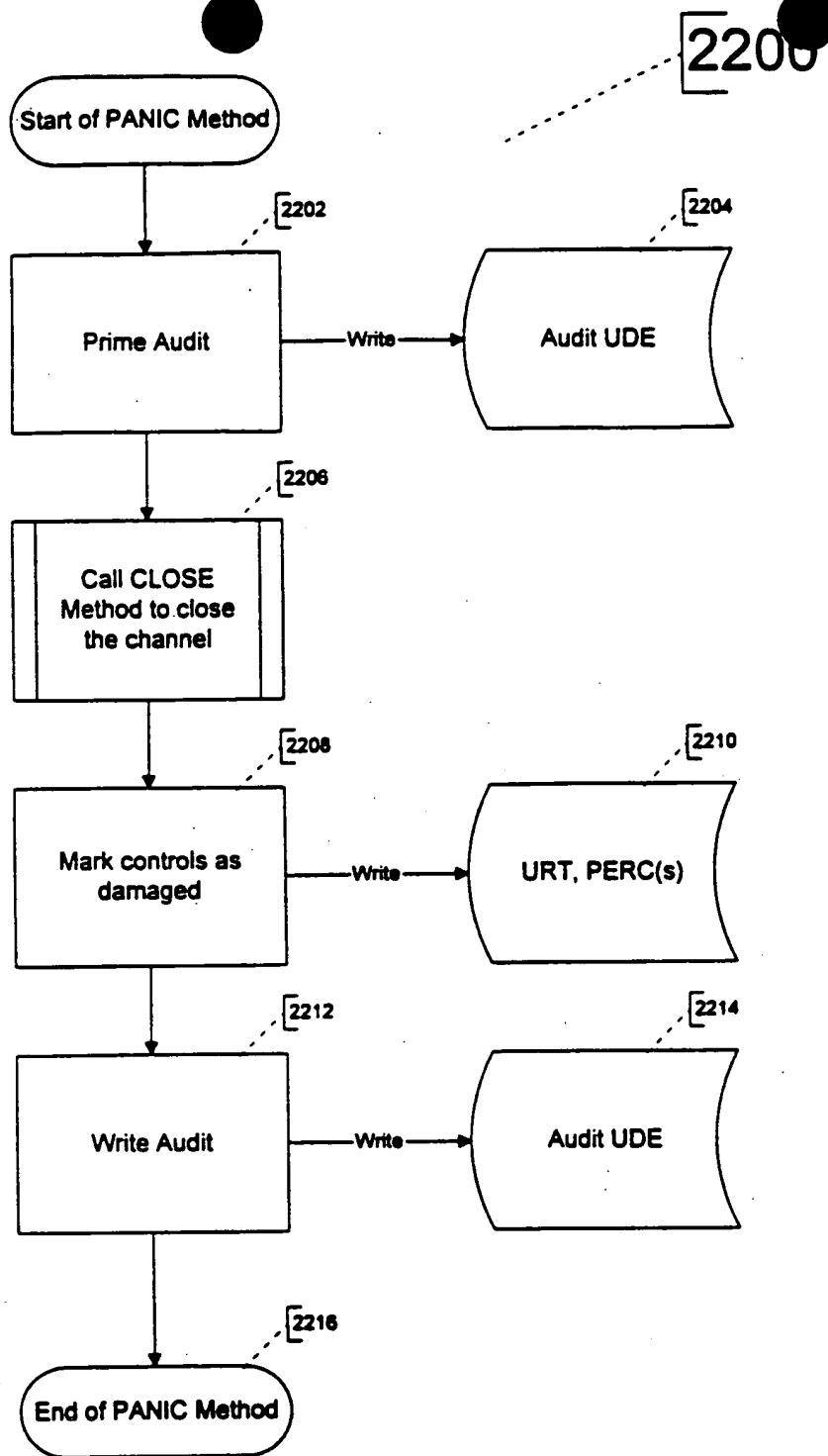


Figure 60



# METER Method Use Process Flow

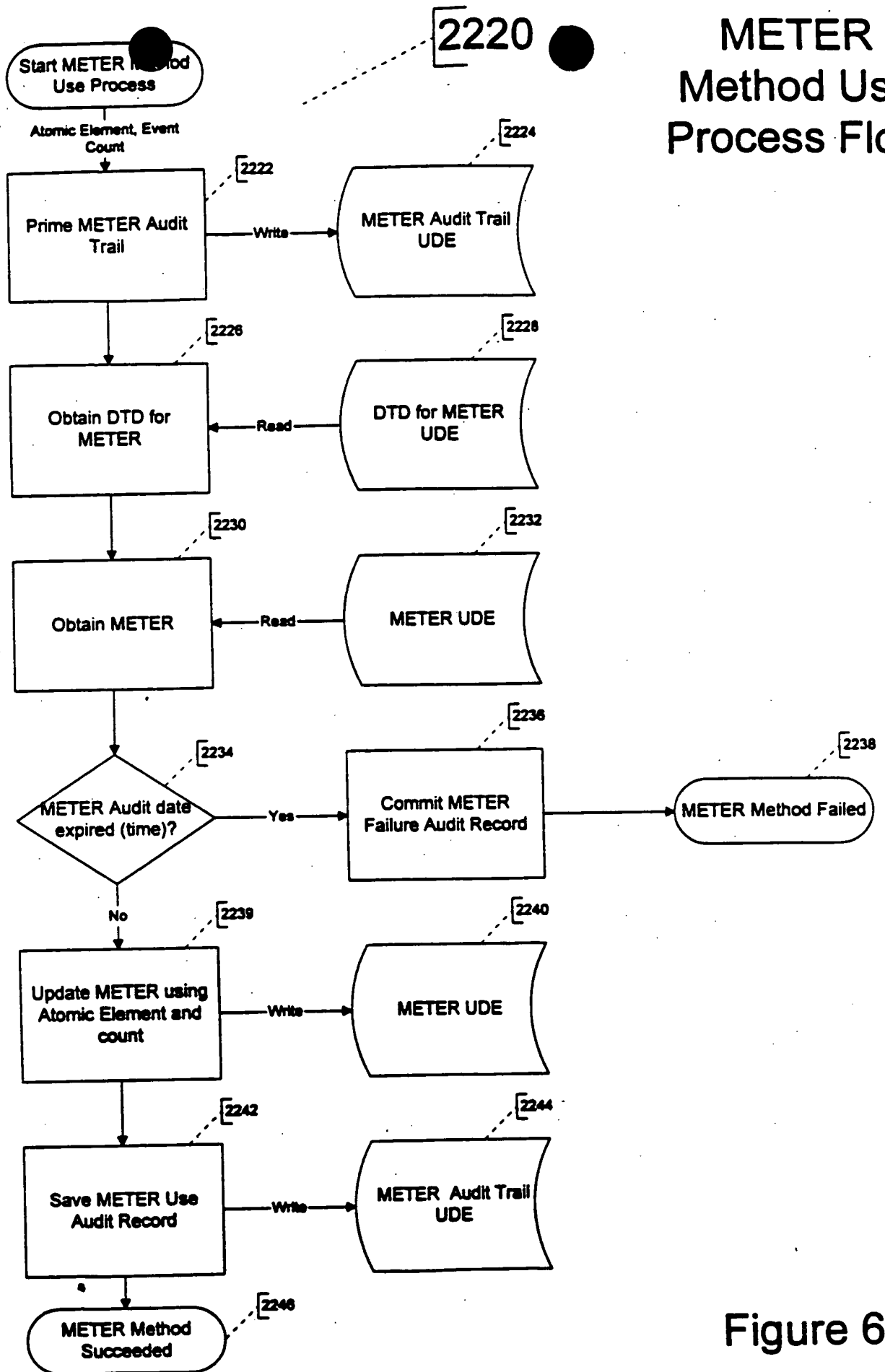
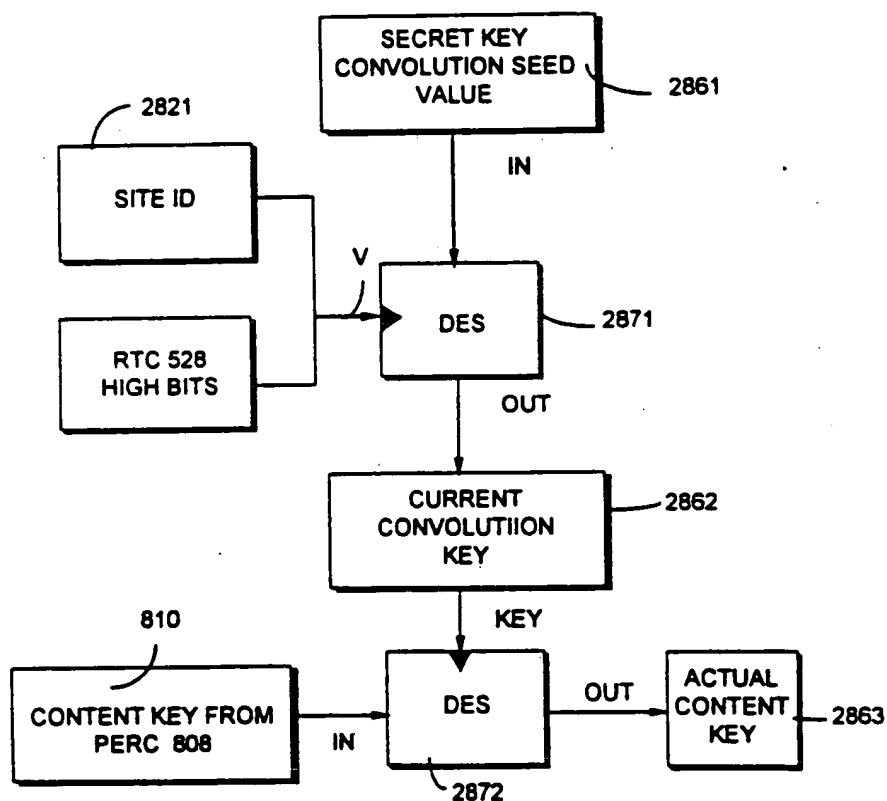
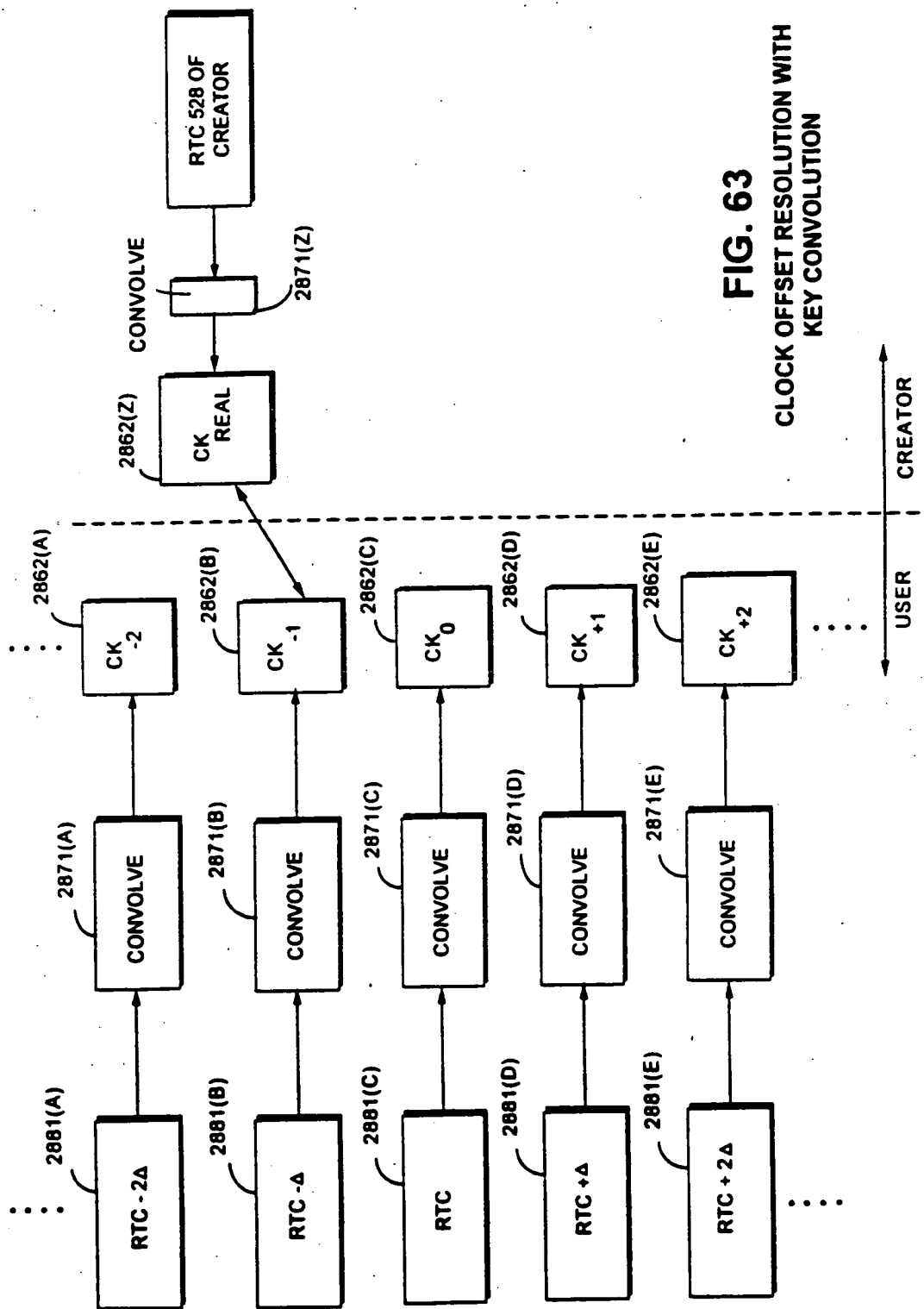


Figure 61

09870801-060104

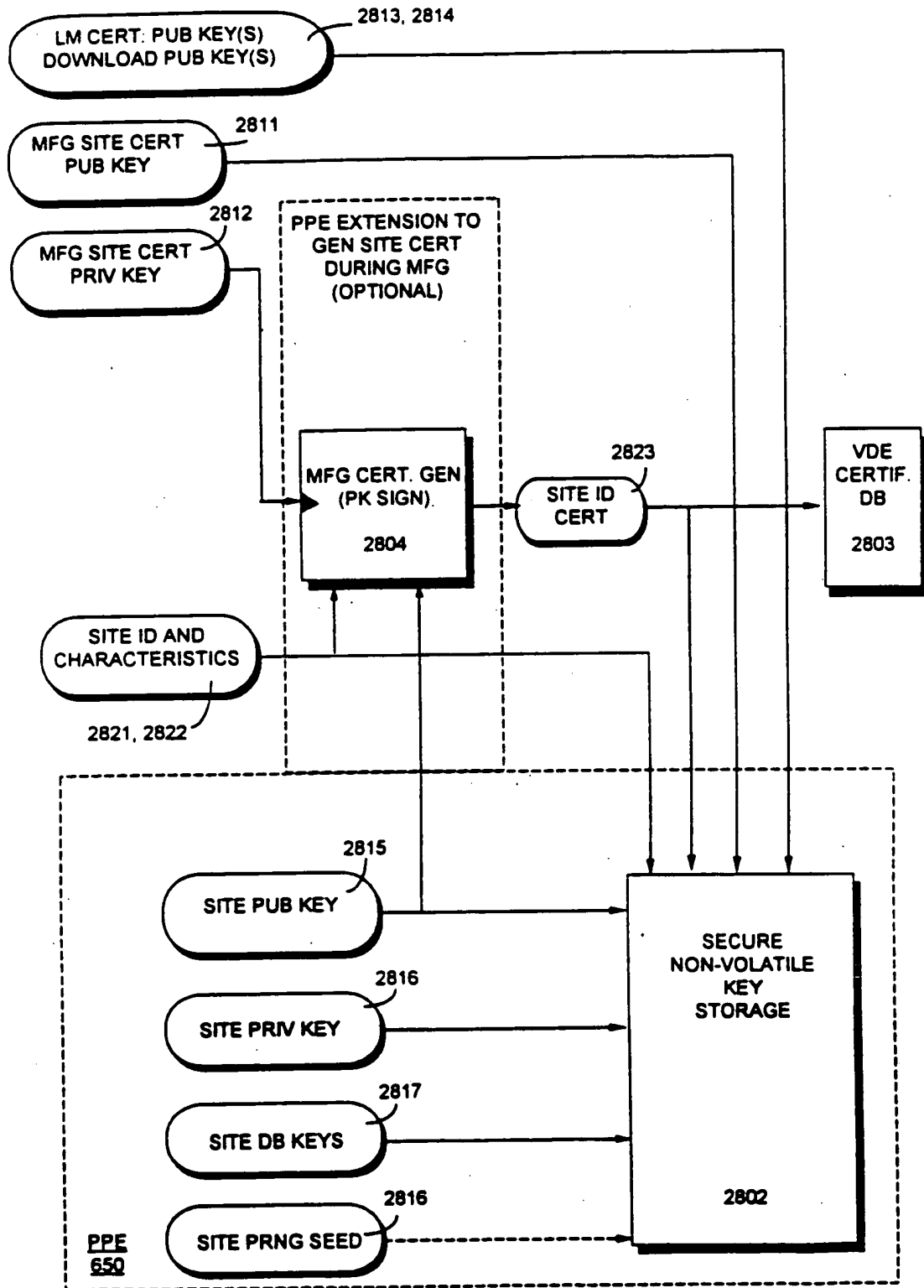
**FIG. 62**  
**KEY CONVOLUTION PROCESS**





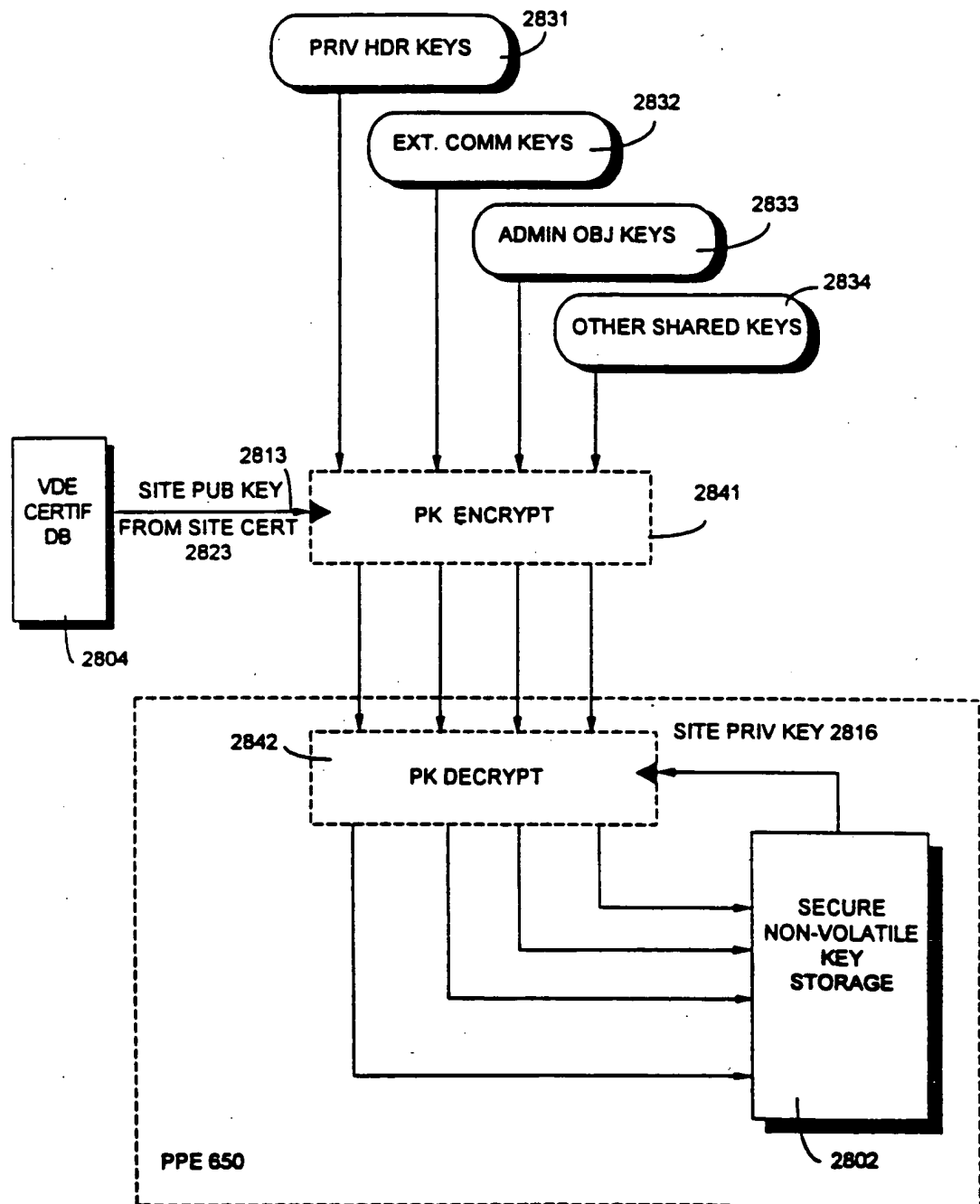
**FIG. 63**  
CLOCK OFFSET RESOLUTION WITH  
KEY CONVOLUTION

**FIG. 64** SPU KEY INITIALIZATION/INSTALLATION



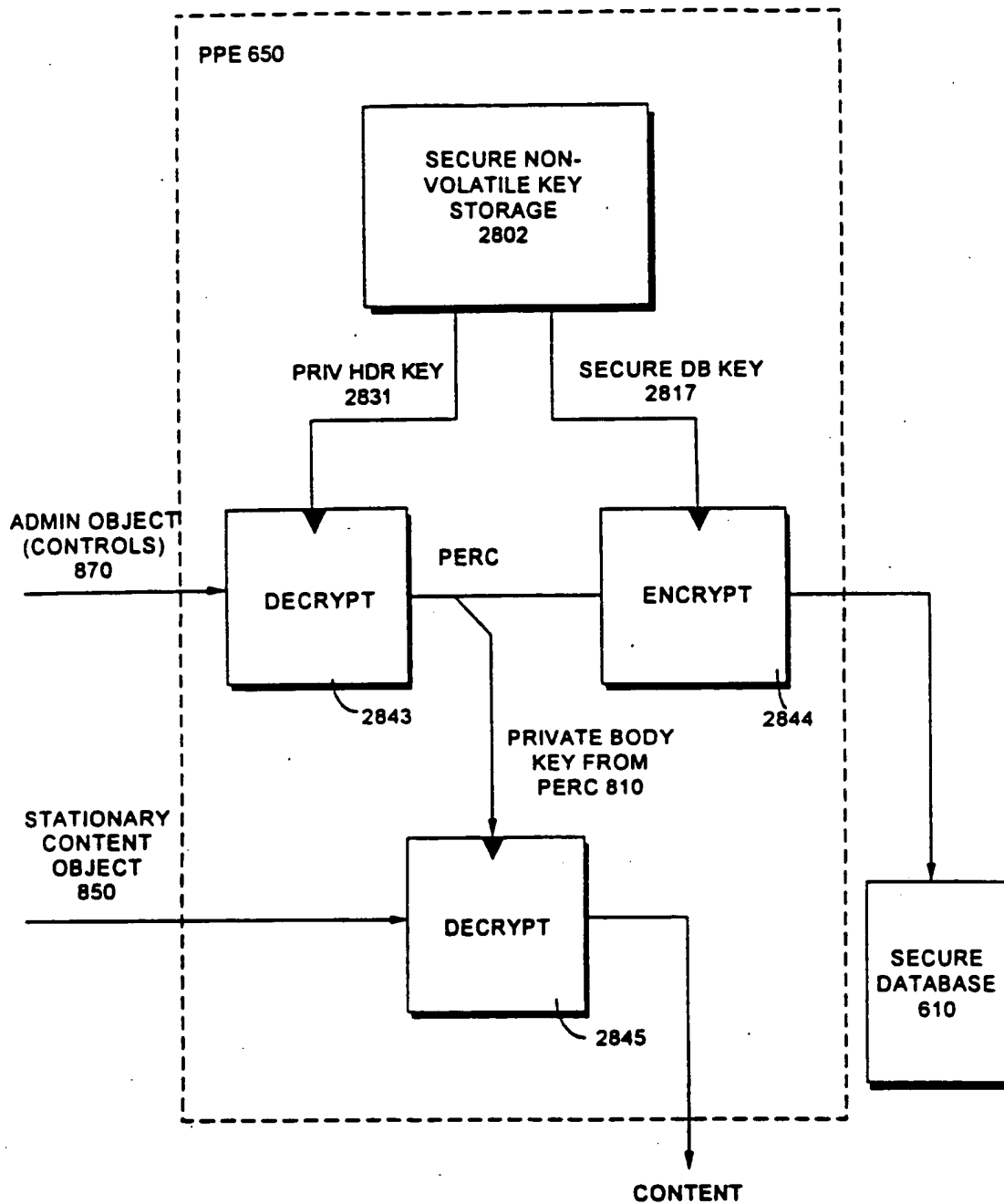
09370804-060401

**FIG. 65** KEY INSTALLATION & UPDATE



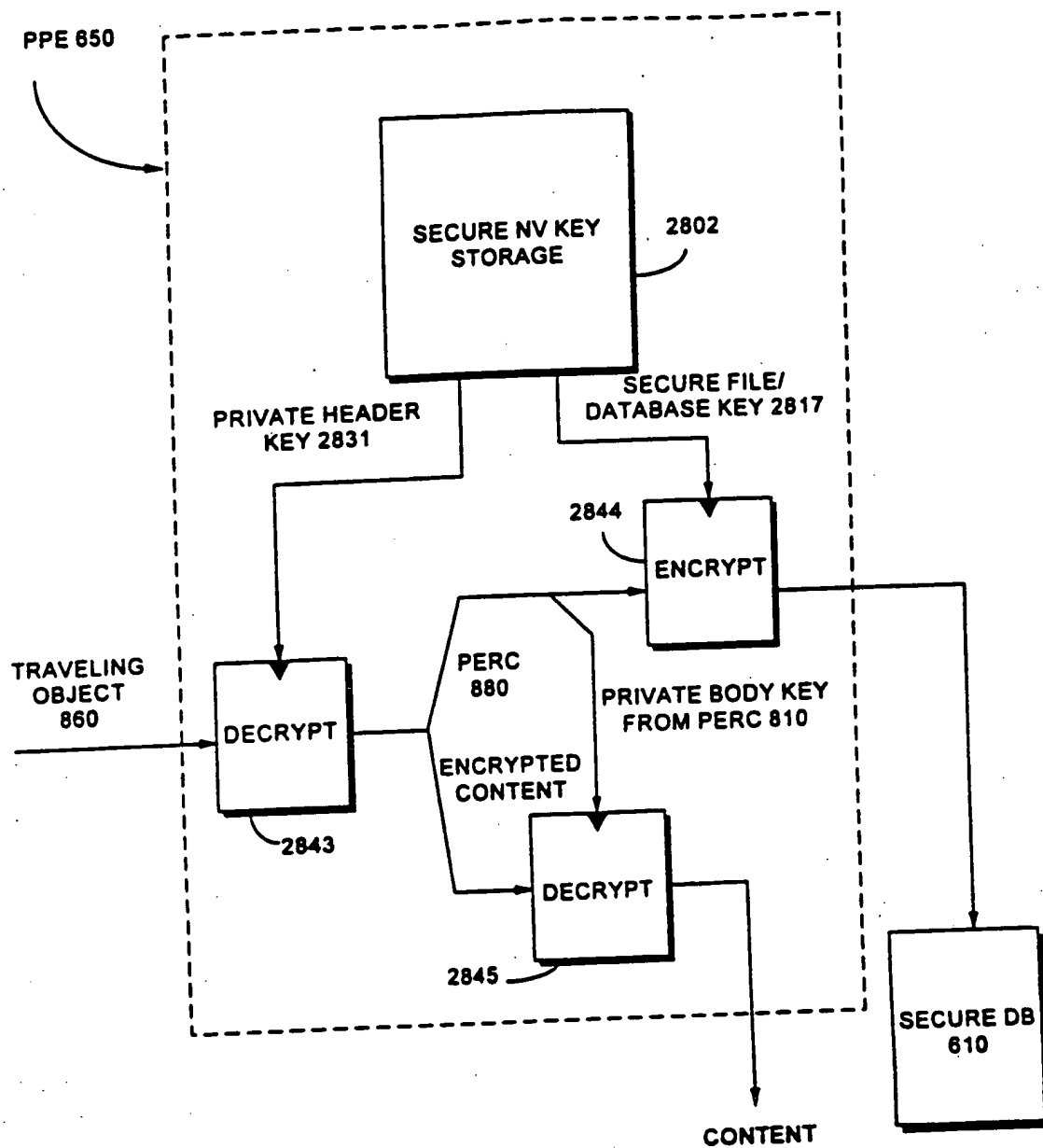
09870801-060401  
TOT90-T0802860

09670801-050401



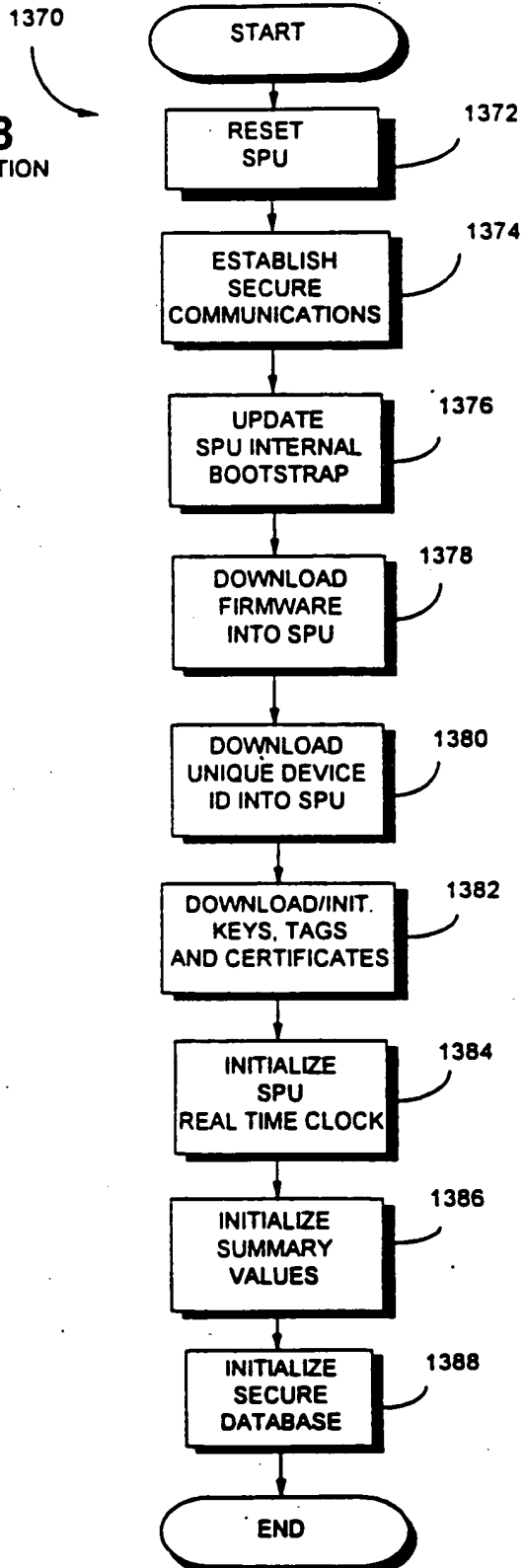
**FIG. 66** STATIONARY OBJECT DECRYPTION

09270601-060104



**FIG. 67** TRAVELING OBJECT DECRYPTION

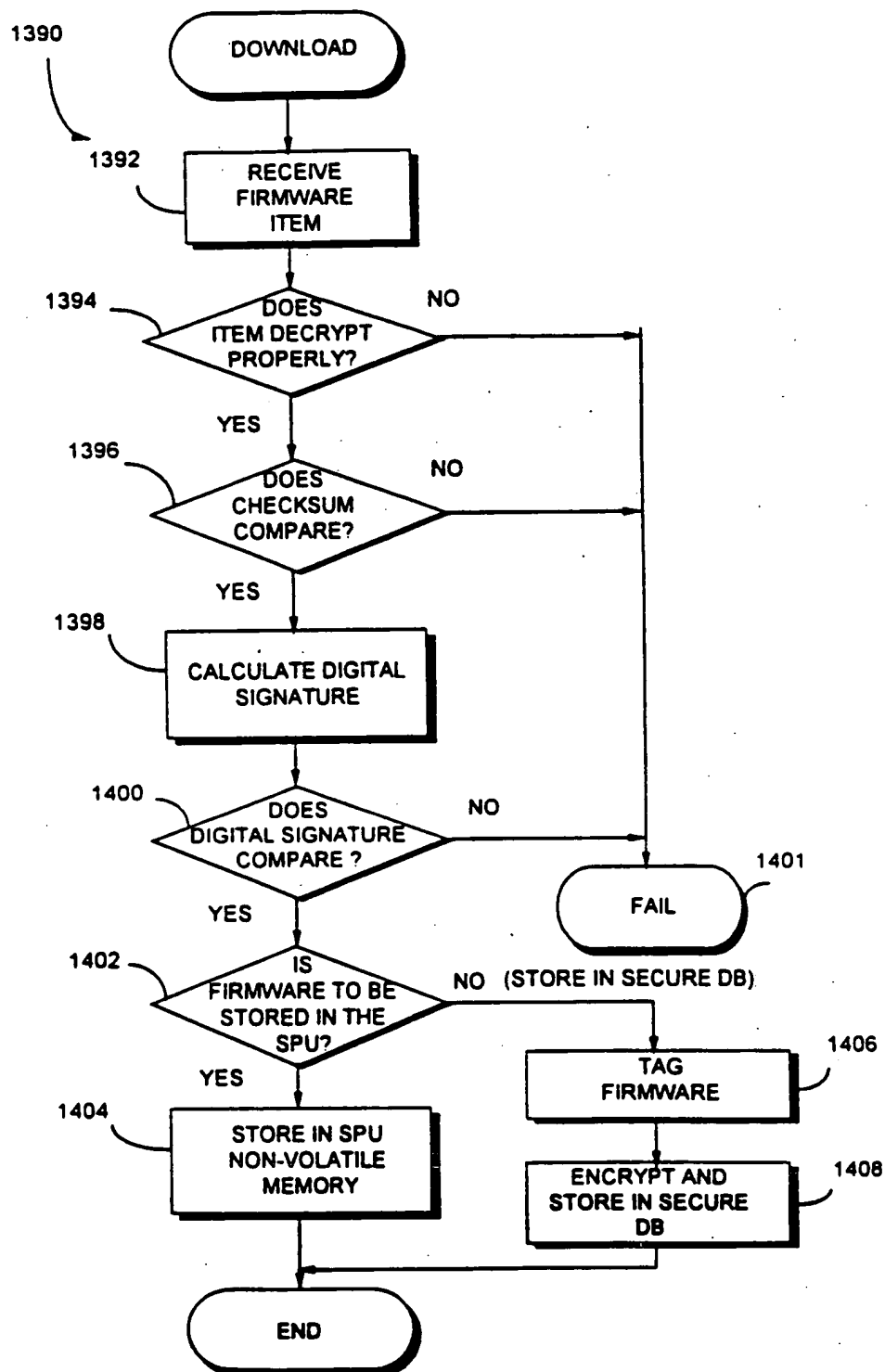
**FIG. 68**  
SPU INITIALIZATION



09870804-060404



09370801-06101



**FIG. 69**

SPU FIRMWARE  
DOWNLOAD

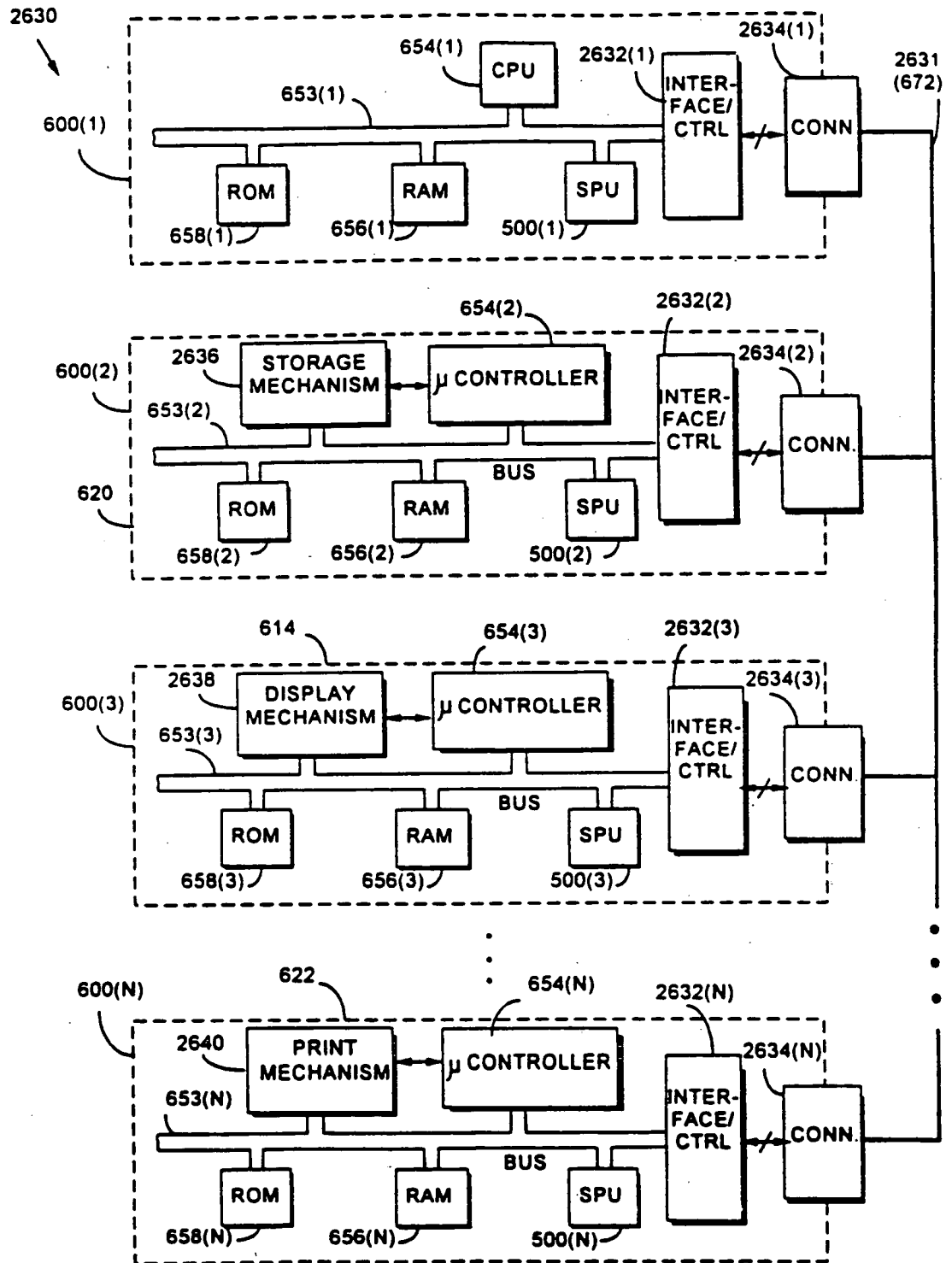
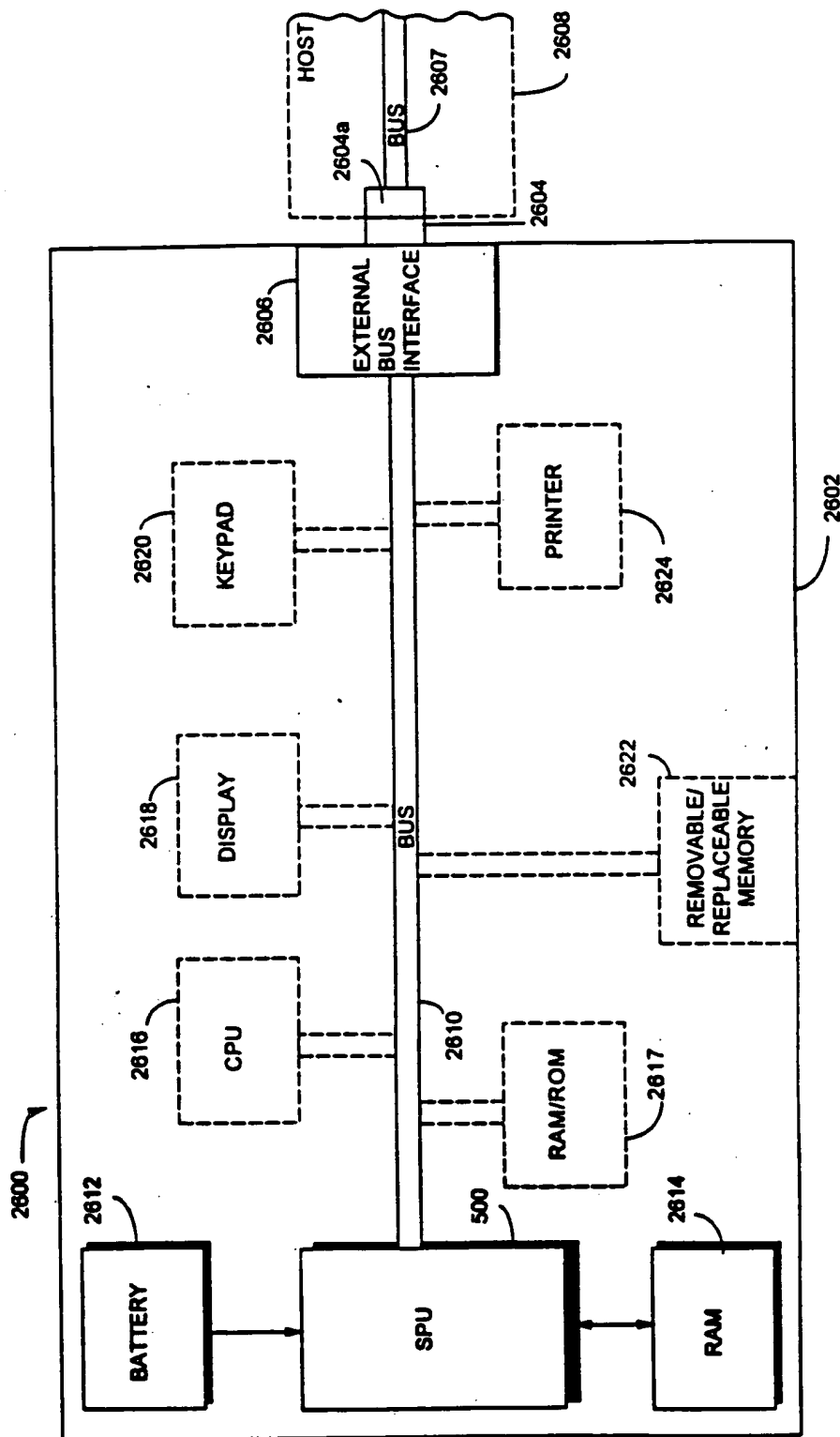


FIG. 70

FIG. 71

PORTABLE APPLIANCE



LOG IN USER INTERFACE

182

A login interface window with a title bar. It contains two input fields: 'USER NAME:' with the text 'SHEAR, V.' and 'PASSWORD:' with five asterisks. Below the password field is a checkbox labeled 'LOGIN AT STARTUP'. To the right of the input fields are three buttons: 'LOGIN', 'CANCEL', and 'HELP'.

FIG. 72A

FIG. 72B

A property request screen with a warning icon (triangle with an exclamation mark) on the left. The main text reads 'YOU HAVE REQUESTED THESE PROPERTIES:'. Below this is the property name 'LOONEY TUNES NEWS!'. To the right of the property name are two buttons: 'APPROVE' and 'SUSPEND'. Below the 'APPROVE' button is a button labeled 'PROPERTY INFO'. At the bottom, it says 'Your Cost: \$7.50' and 'MORE OPTIONS' with a right-pointing arrow. There are three callout numbers: 2660 pointing to the 'CANCEL' button, 2662 pointing to the 'APPROVE' button, and 2664 pointing to the 'MORE OPTIONS' arrow.

FIG. 72C

**SET LIMITS:**

SESSION DOLLAR LIMIT: \$

TRANSACTION DOLLAR LIMIT: \$

TIME LIMIT (IN MINUTES):

UNIT LIMIT:

2666

2674

09870801-060101

FIG. 72D

**YOU HAVE REQUESTED THESE PROPERTIES:**

**LOONEY TUNE NEWS!**

**YOUR COST : \$7.50**

**PROPERTY INFO**

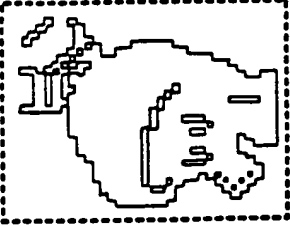
**CANCEL**

**SUSPEND**

**APPROVE**

**More Options** ☒

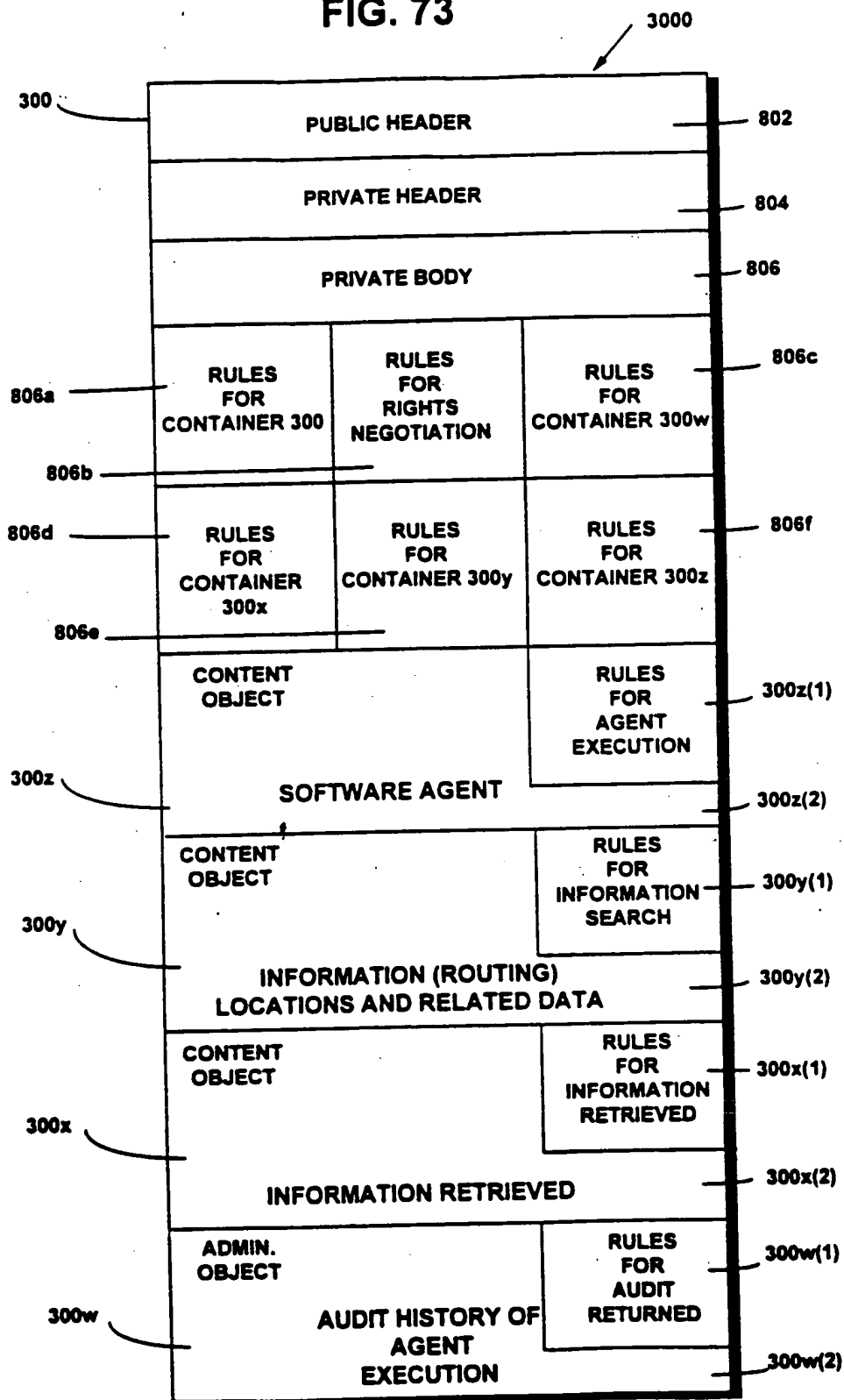
**Show Thumbnail**



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓	●	
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓	●	
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY		●	
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY		●	
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY		●	
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL		●	
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL		●	

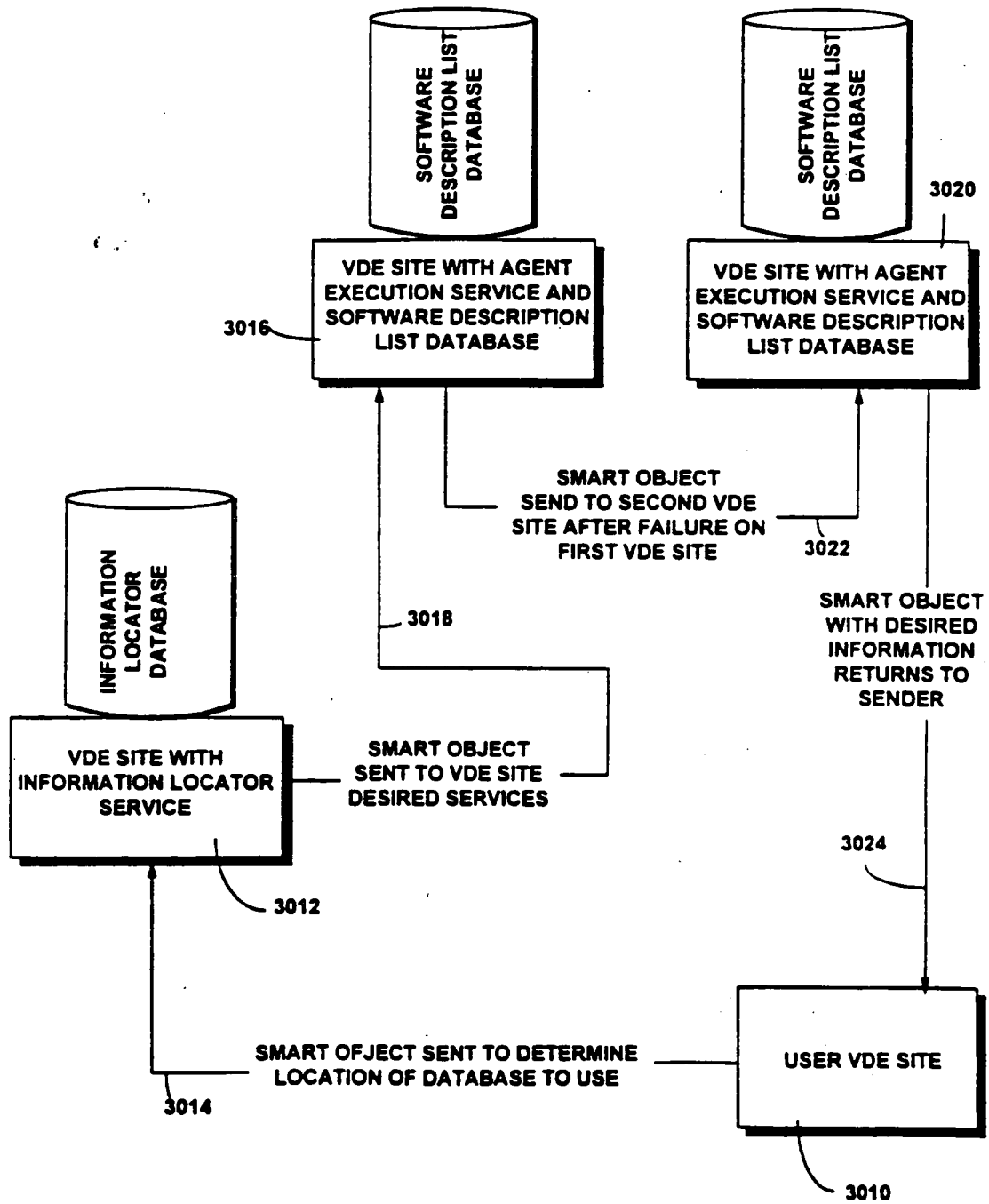
SET LIMITS...	SHOW BUDGETS	ACQUIRE BUDGET...	HISTORY...	TRANSFER...	PREFERENCES...	FEEDBACK...	HELP!
---------------	--------------	-------------------	------------	-------------	----------------	-------------	-------

FIG. 73



09870804.060101

FIG. 74



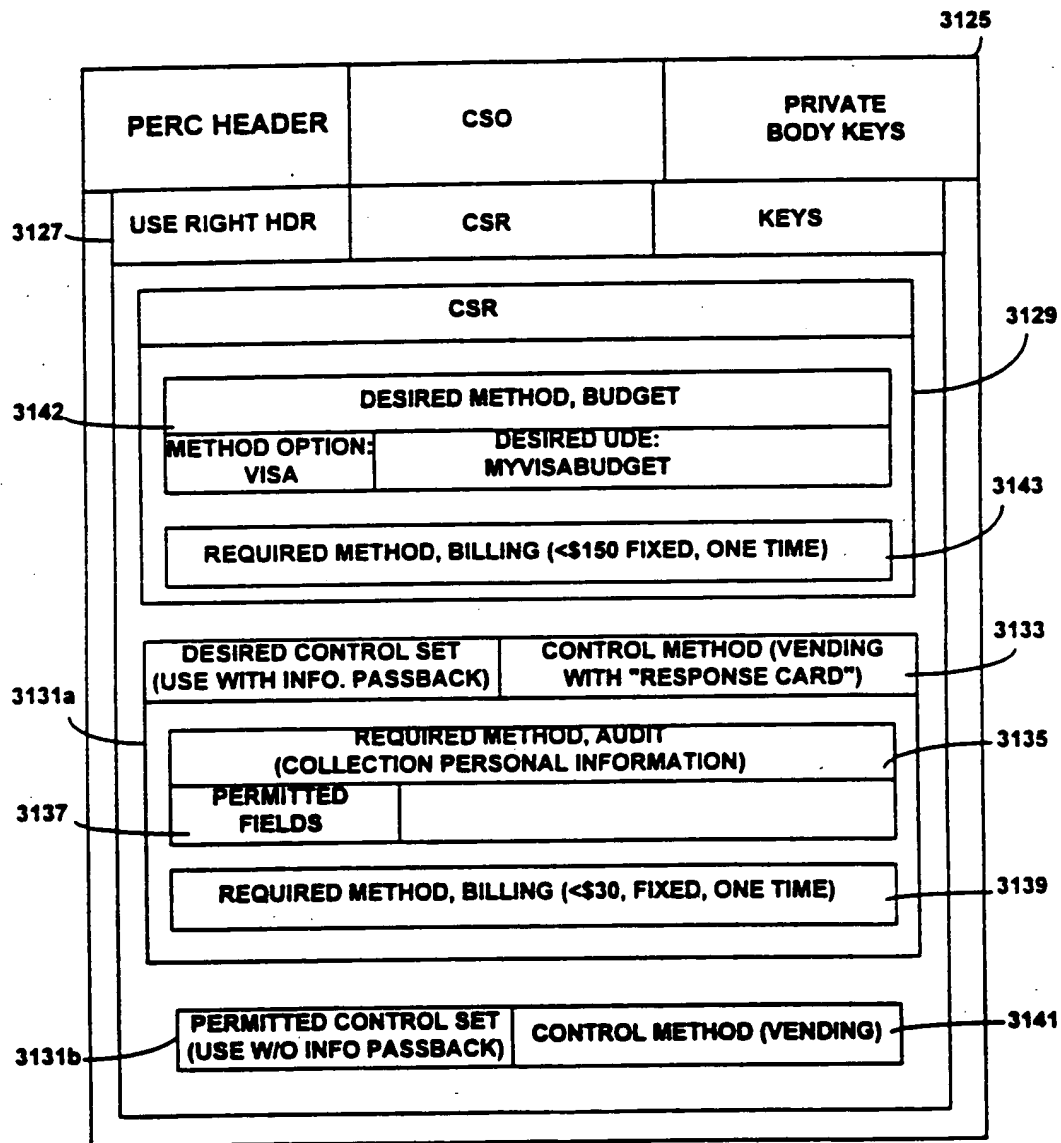


# FIG. 75A

PERC HEADER		CSO		PRIVATE BODY KEYS	
USE RIGHT HDR		CSR		KEYS	
PERMITTED CONTROL SET (USE W/O INFO. PASSBACK)		CONTROL METHOD (VENDING)			
REQUIRED METHOD, BUDGET					
METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
REQUIRED METHOD, BILLING (\$100 FIXED, ONE TIME)					
DESIRED CONTROL SET (USE WITH INFO. PASSBACK)		CONTROL METHOD (VENDING WITH "RESPONSE CARD")			
REQUIRED METHOD, BUDGET					
METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)					
REQUIRED FIELDS		DESIRED FIELDS			
REQUIRED METHOD, BILLING (\$25 FIXED, ONE TIME)					

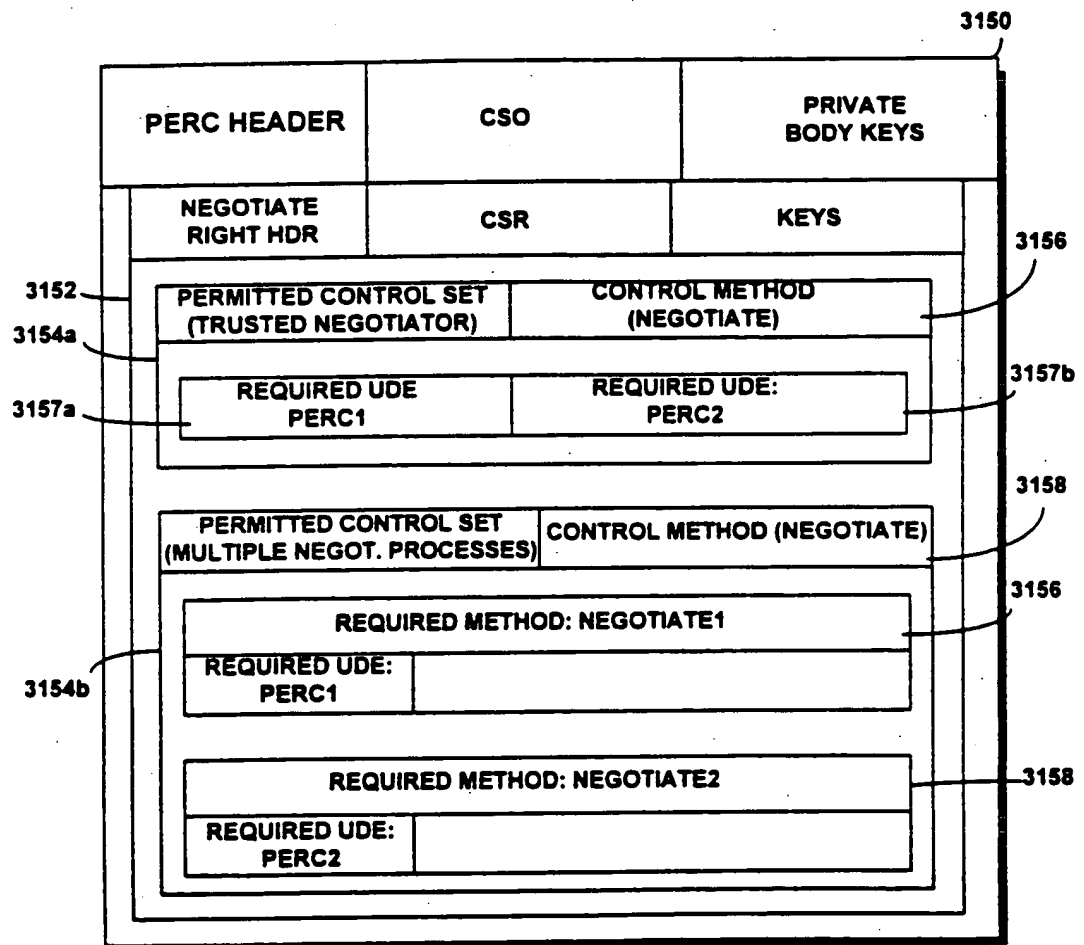
09270804-060404

FIG. 75B



09370801-060404

FIG. 75C



09870601-060104

FIG. 75D

URT HEADER		CSO	DIGITAL SIGNATURE
USE RIGHT HDR		CSR	
CONTROL SET(USE WITH INFO. PASSBACK)		CONTROL METHOD(VENDING WITH "RESPONSE CARD")	
REQUIRED METHOD, BUDGET			
METHOD OPTION: VISA		DESIRED UDE: MYVISABUDGET	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)			
PERMITTED FIELDS			
REQUIRED METHOD, BILLING(\$25, FIXED, ONE TIME)			

3160

3162

3164

3166

3170

09870801-060101

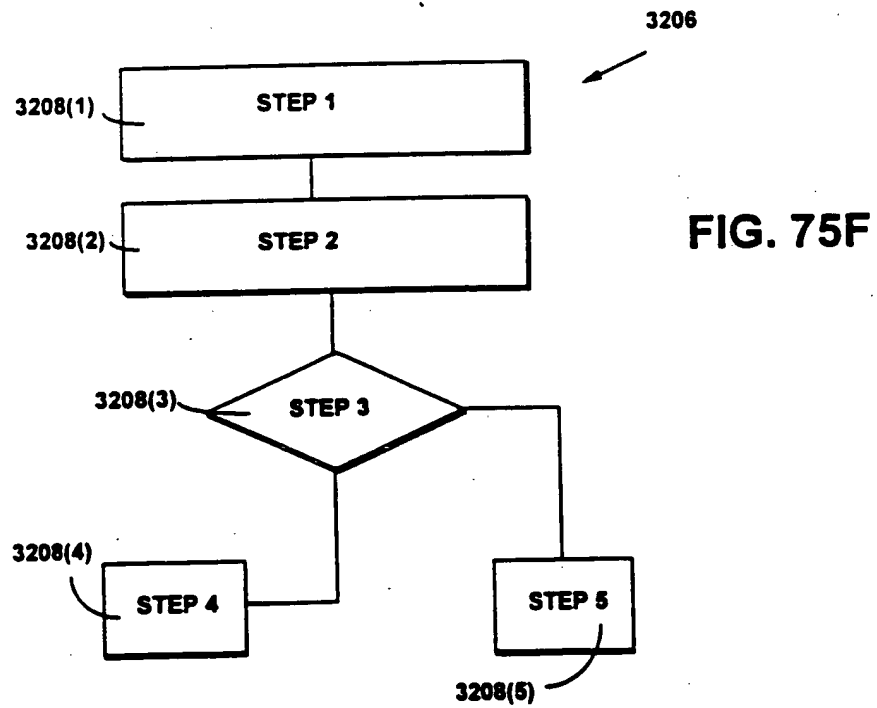
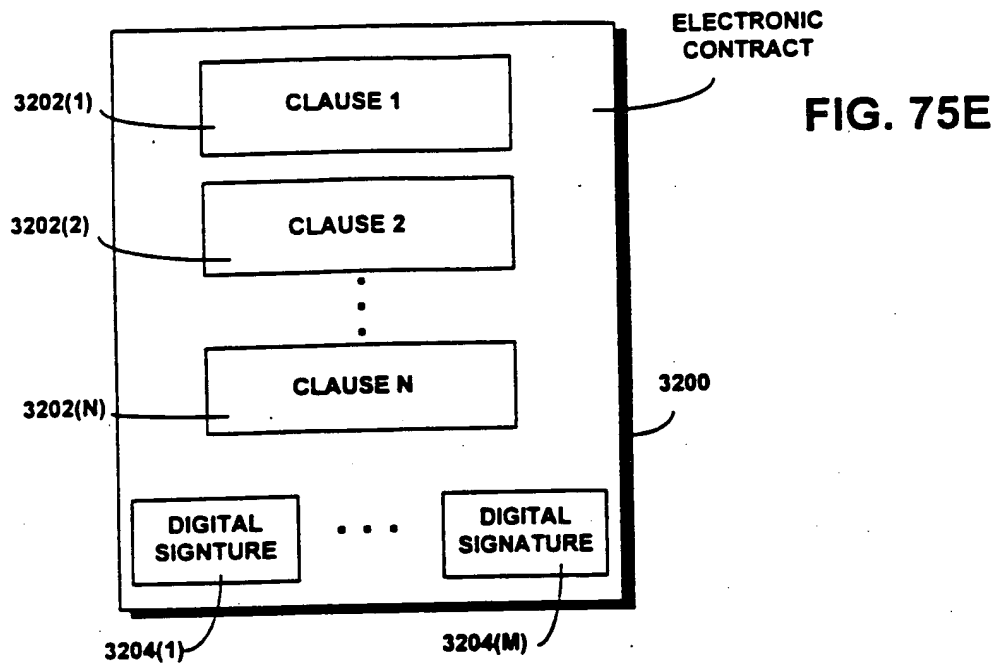
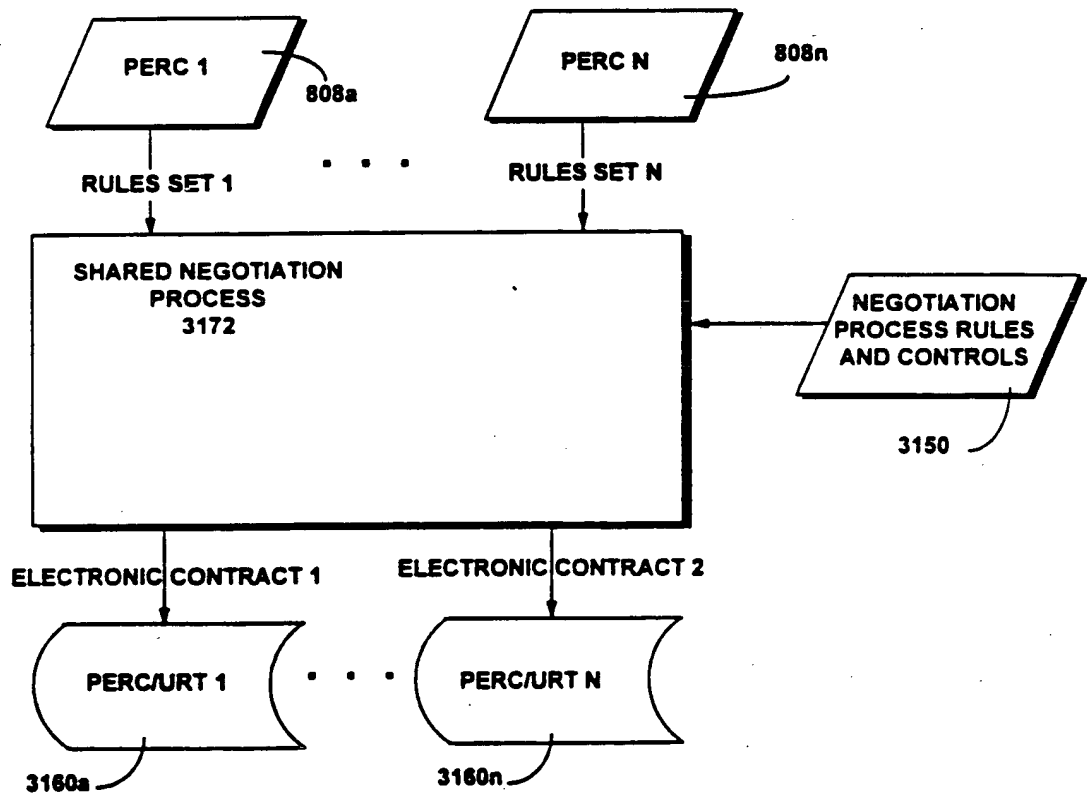
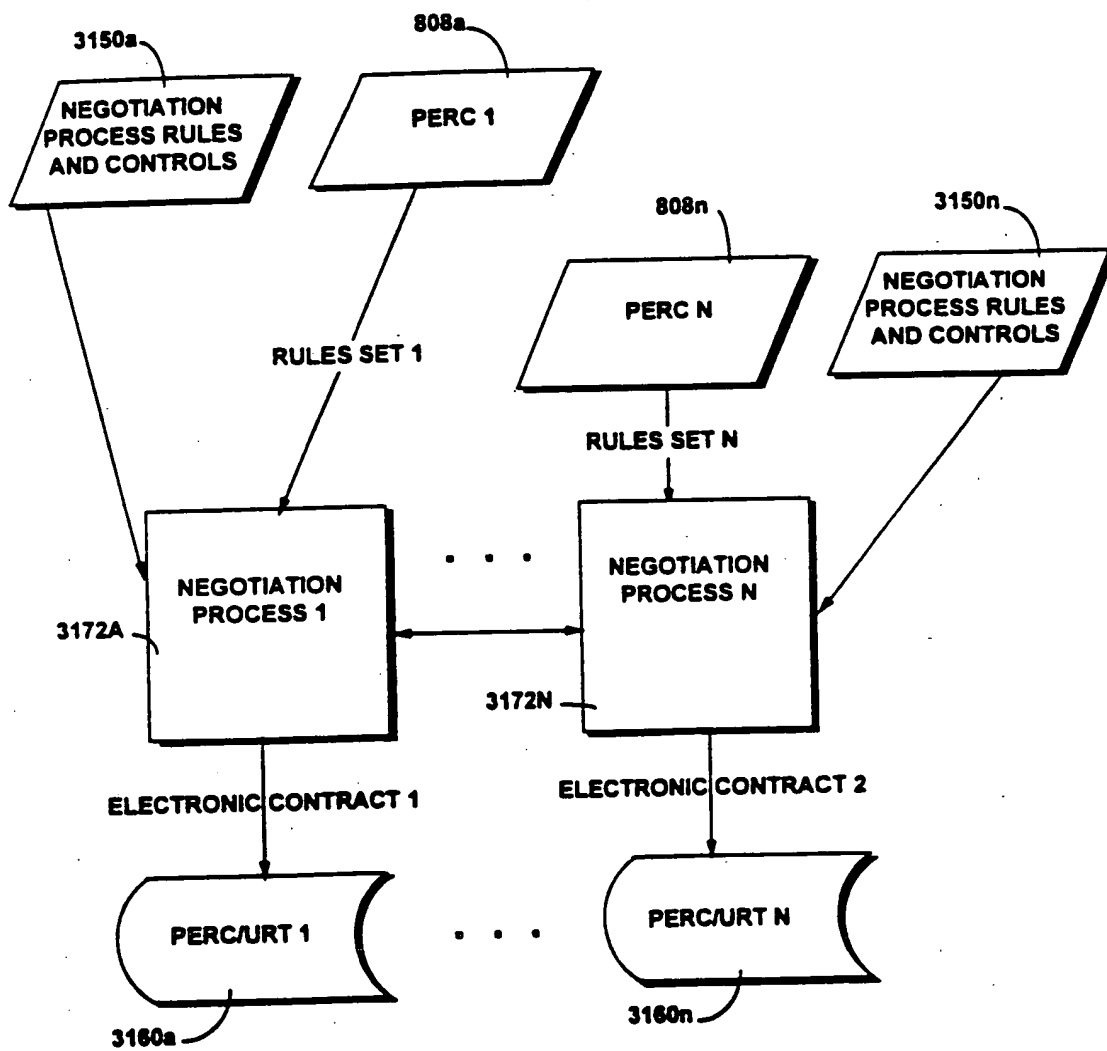


FIG. 76A



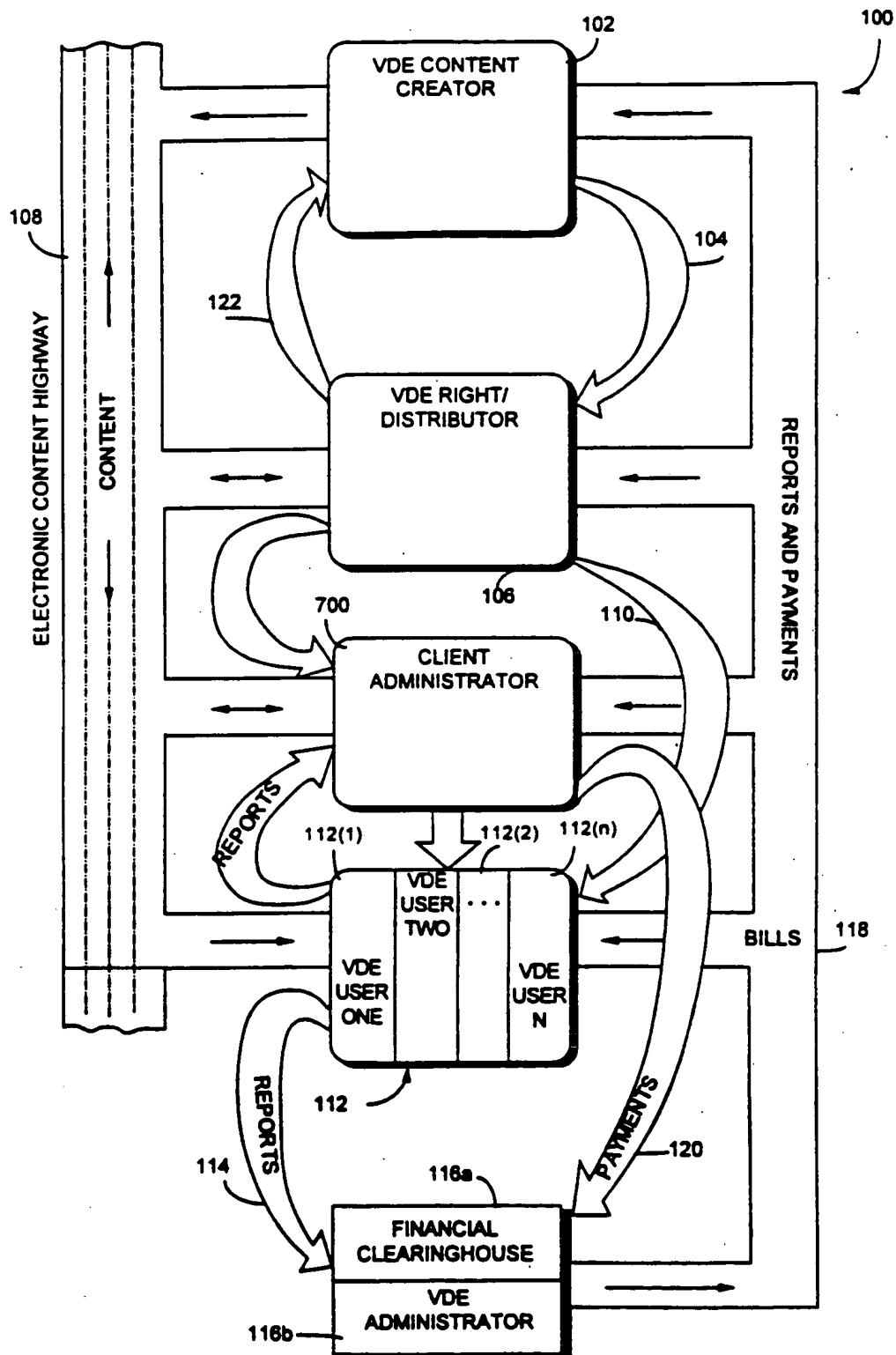
09870301.060104

FIG. 76B



09370301.060401

FIG. 77



09870801.060401



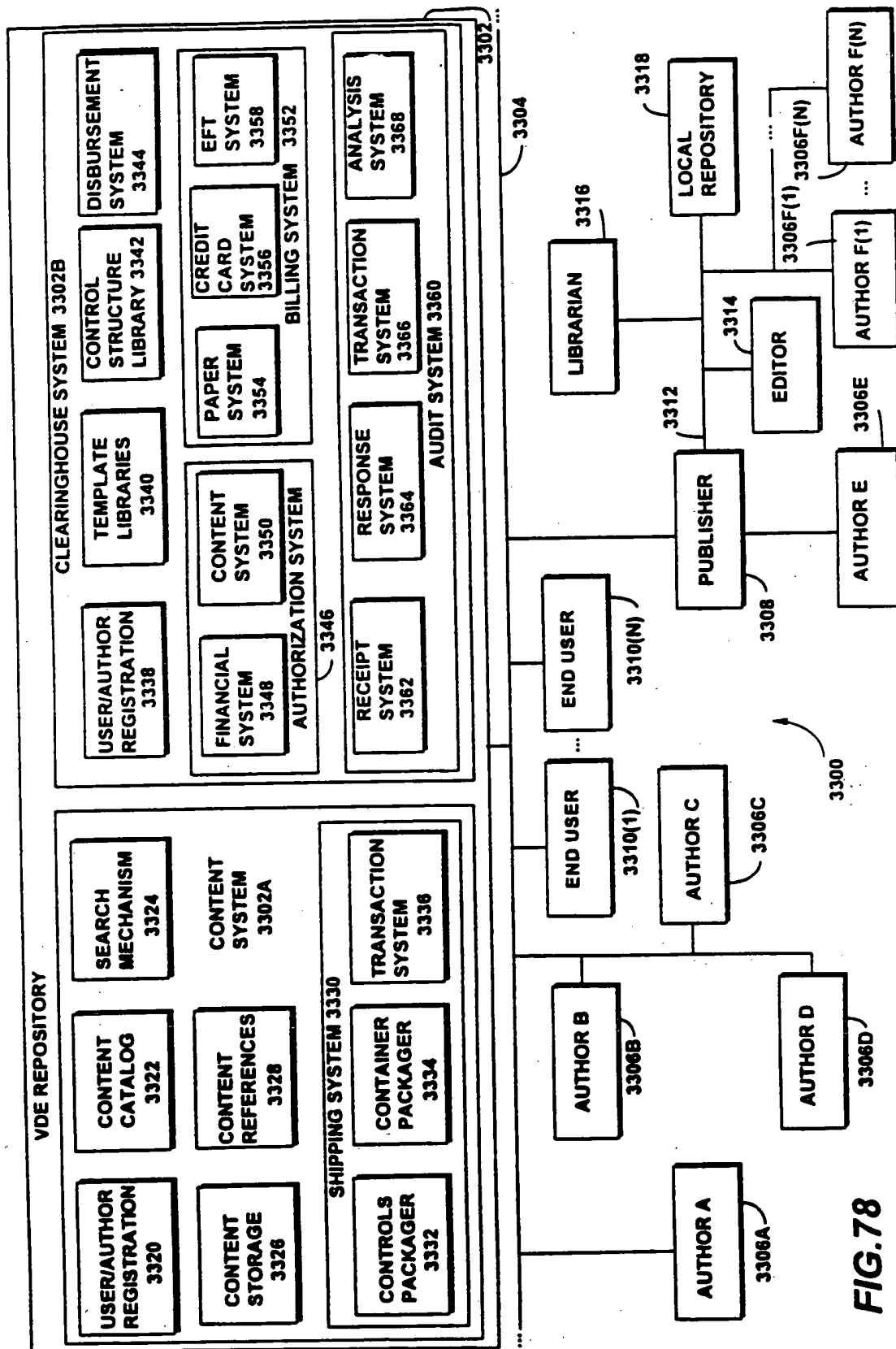
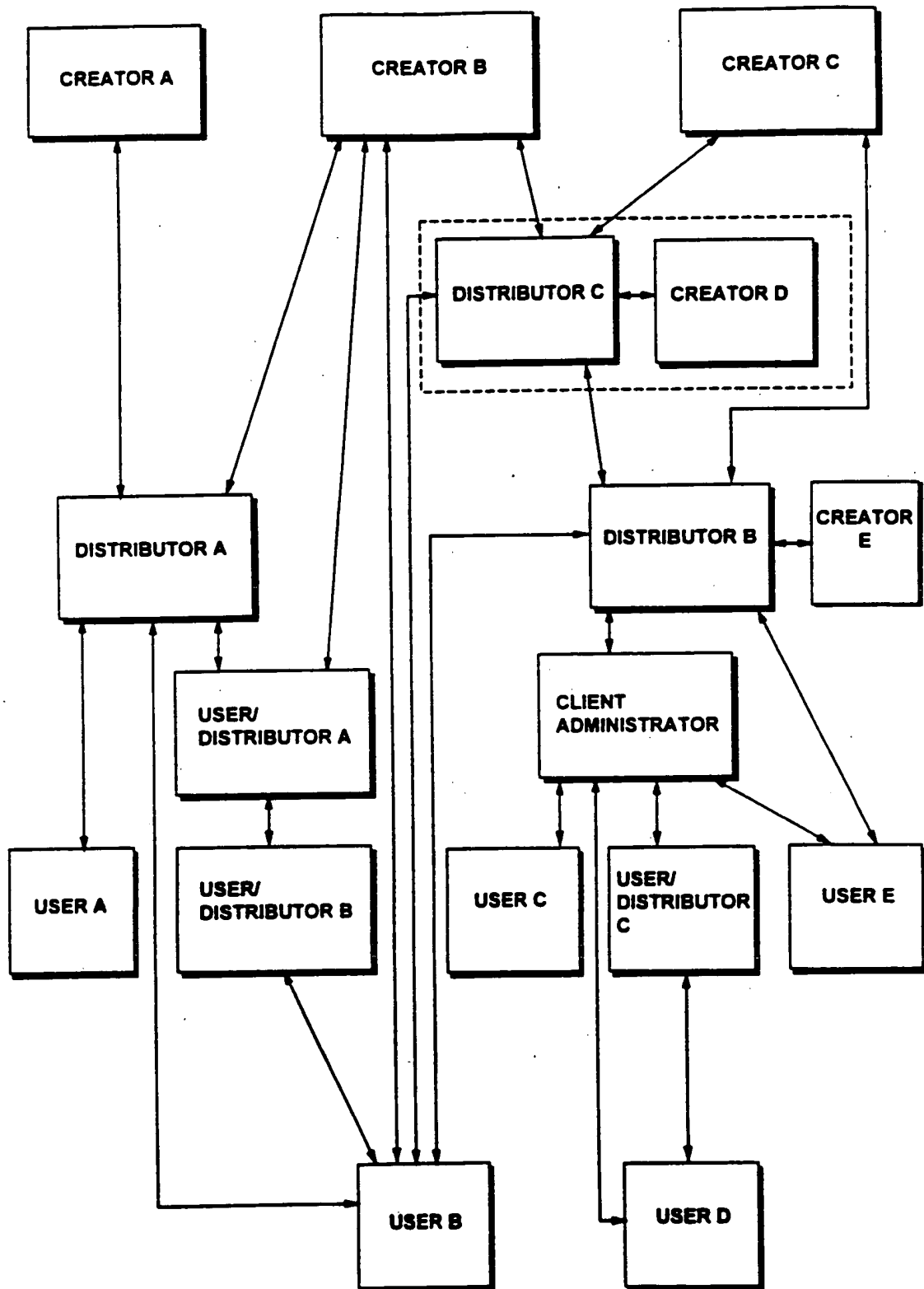


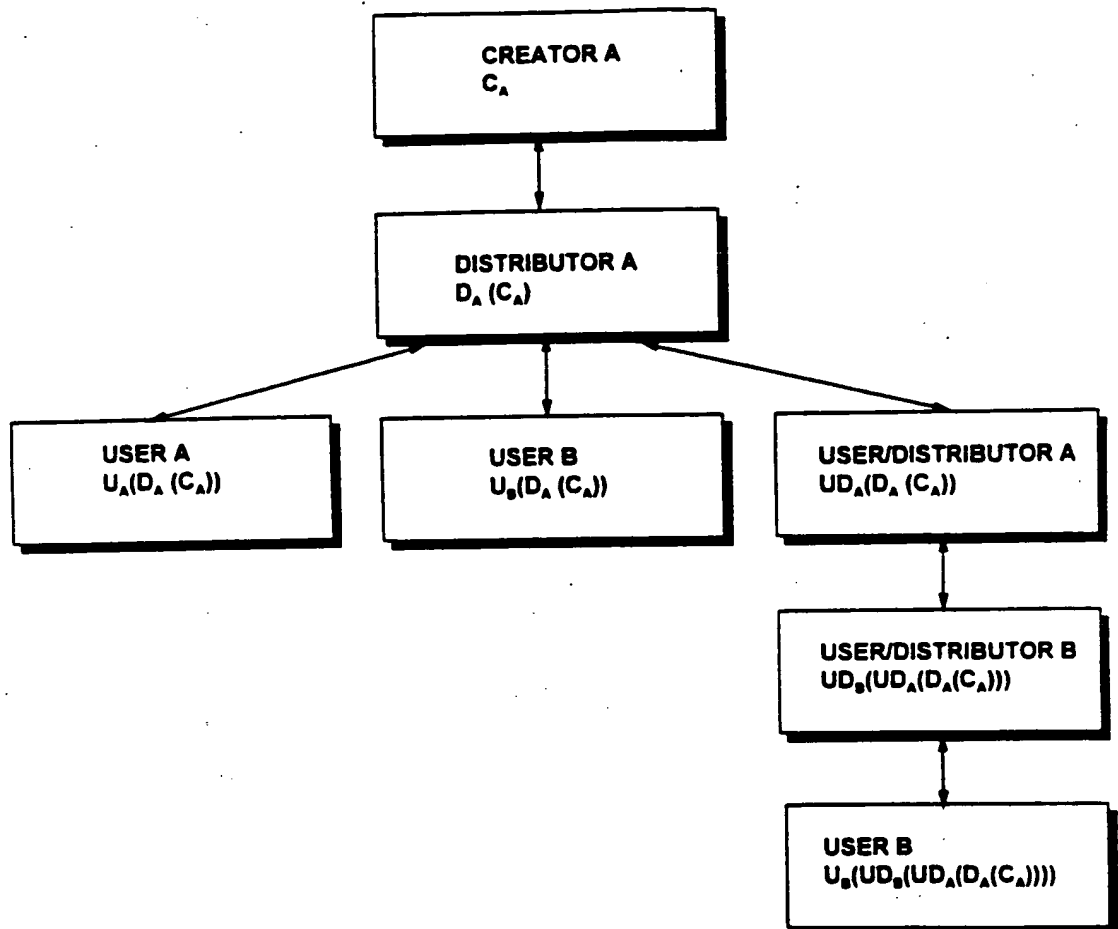
FIG.78

FIG. 79



09870801.060101

**FIG. 80**



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FIG. 81

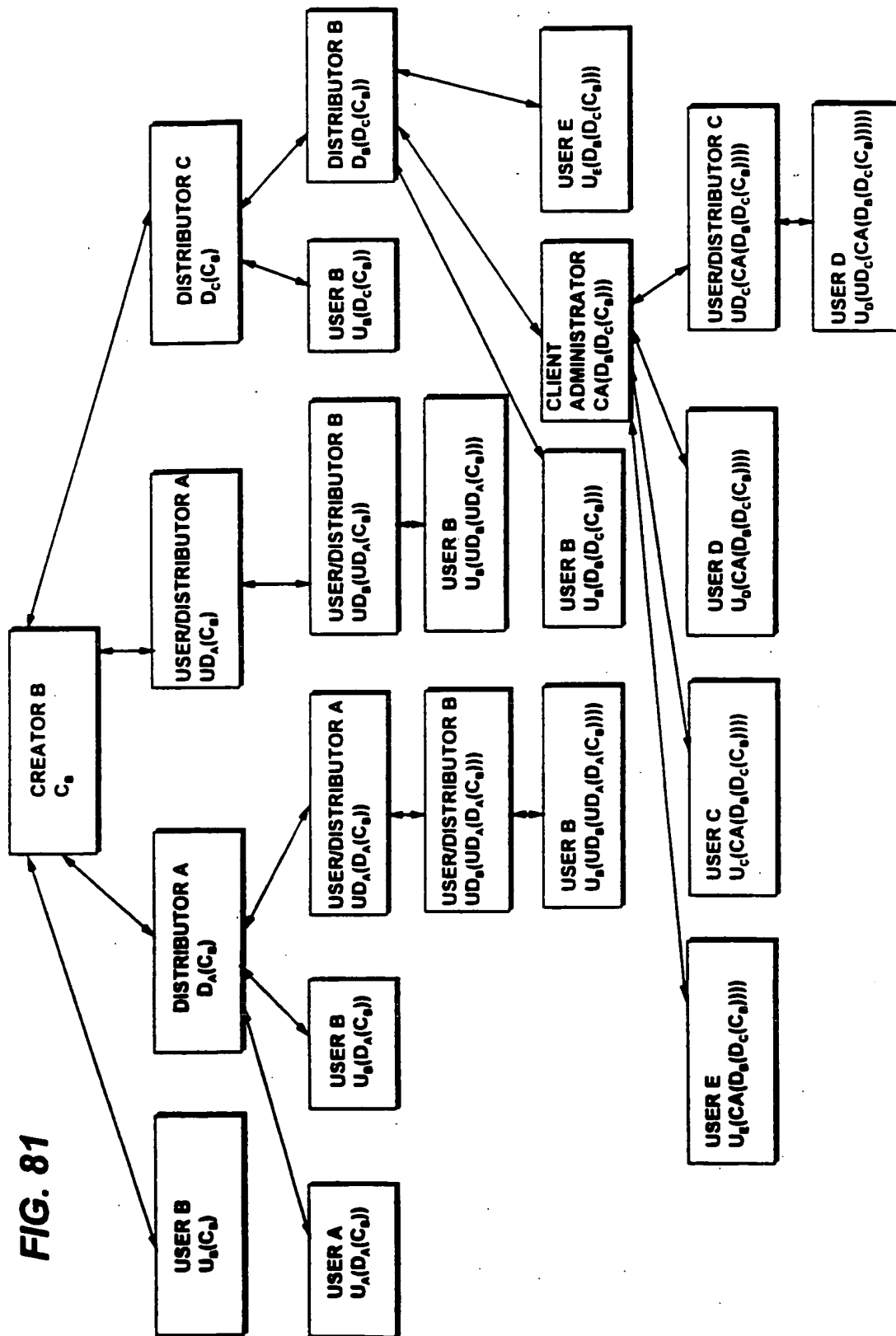
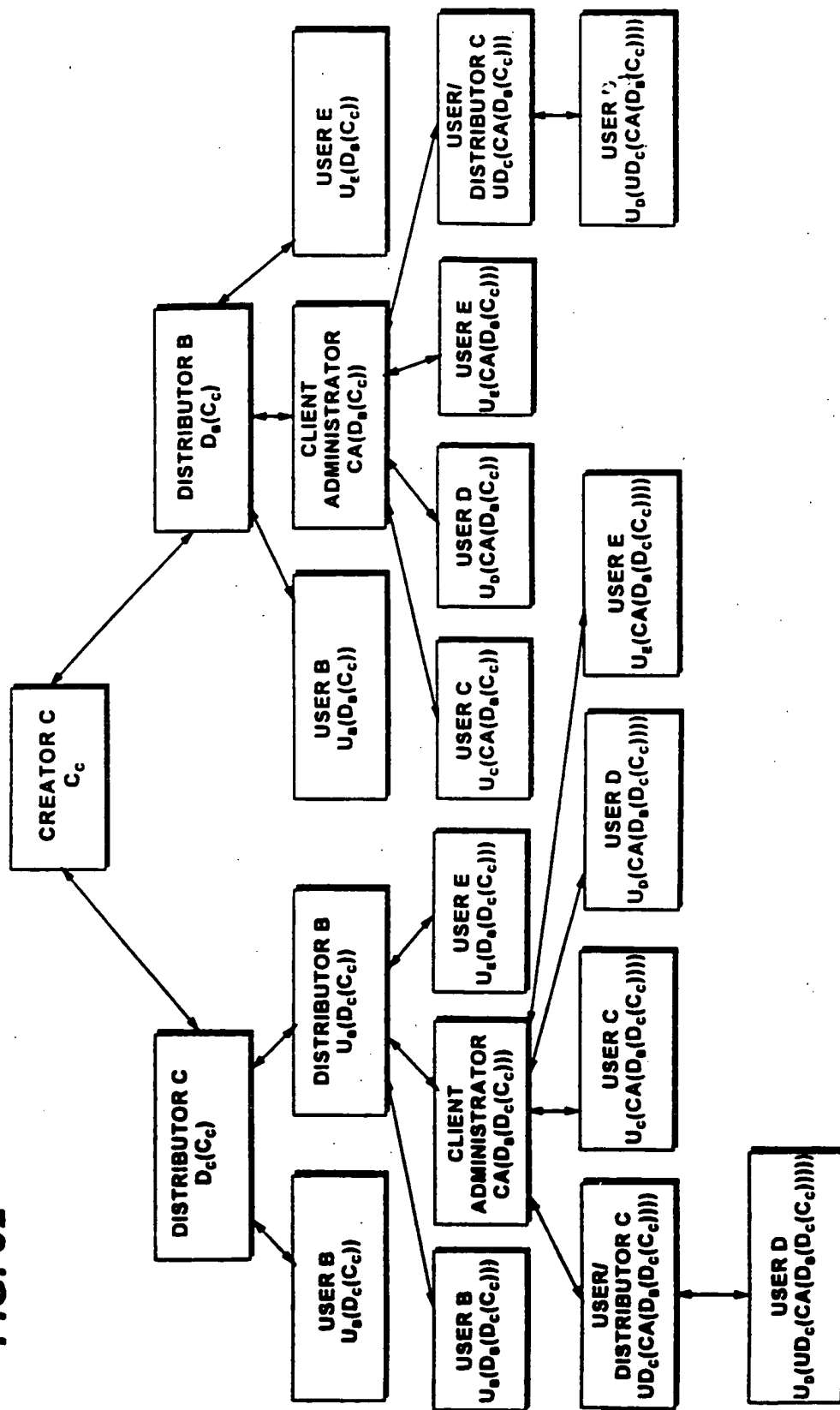
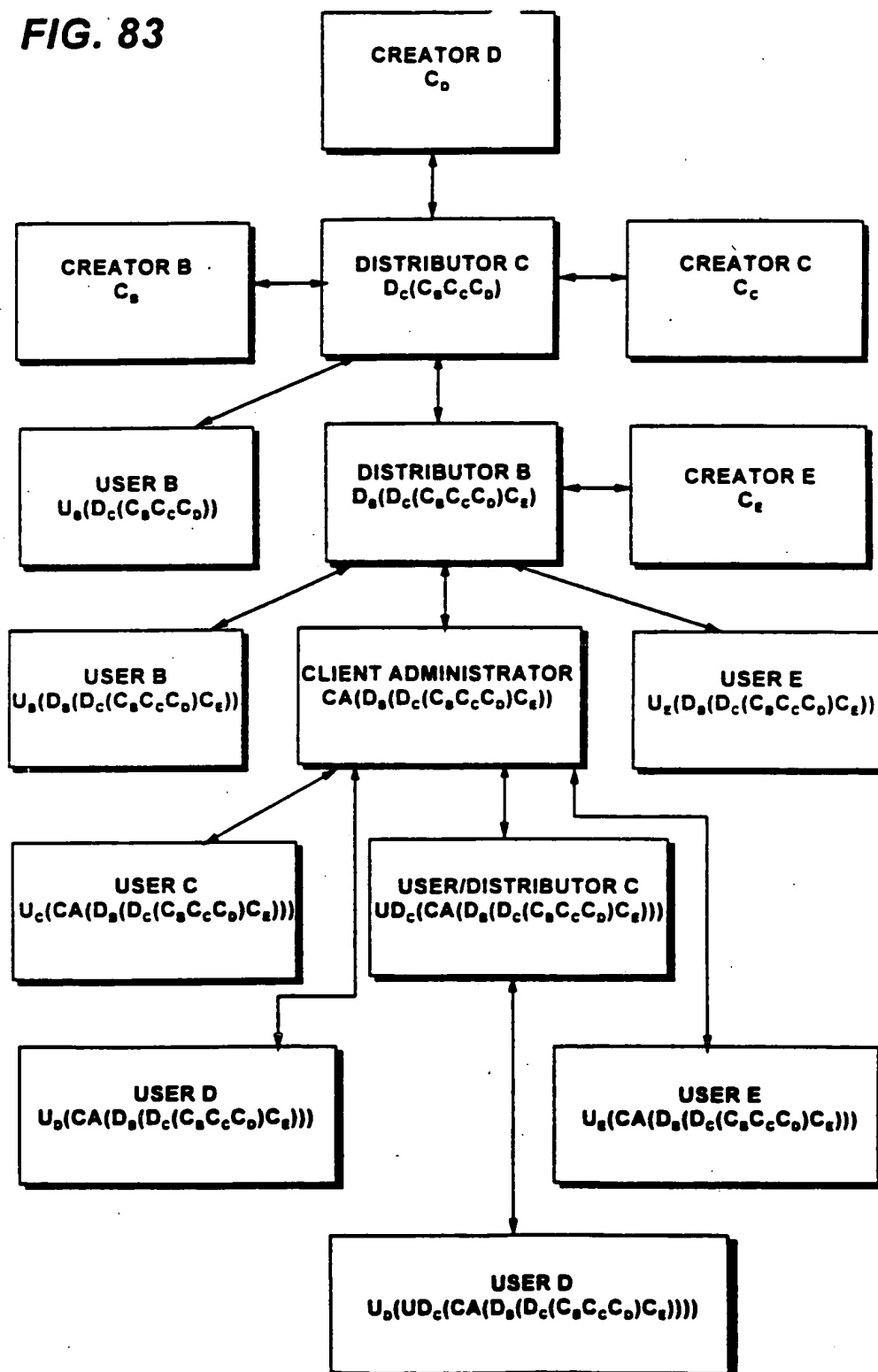


FIG. 82



**FIG. 83**



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FIG. 84

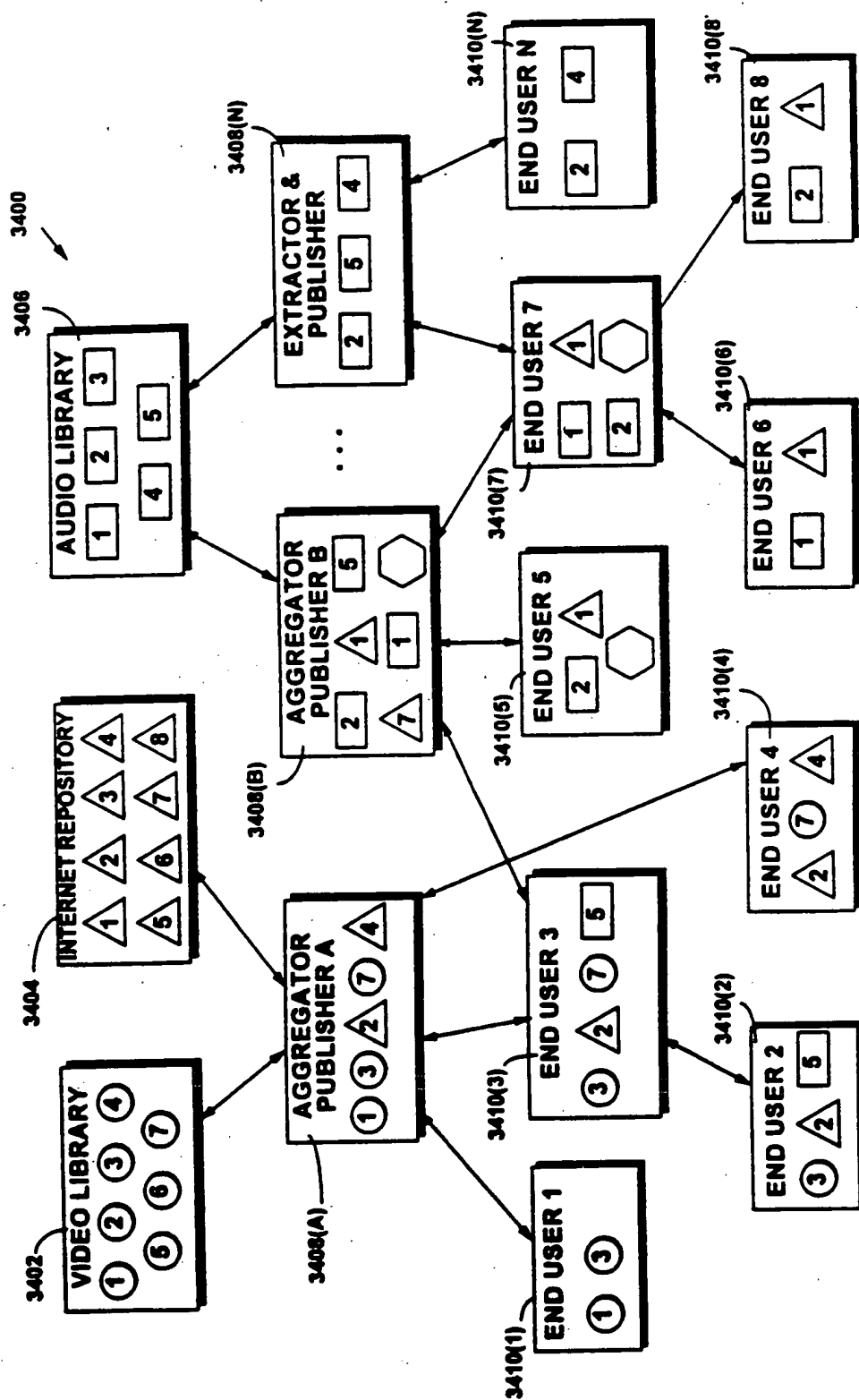
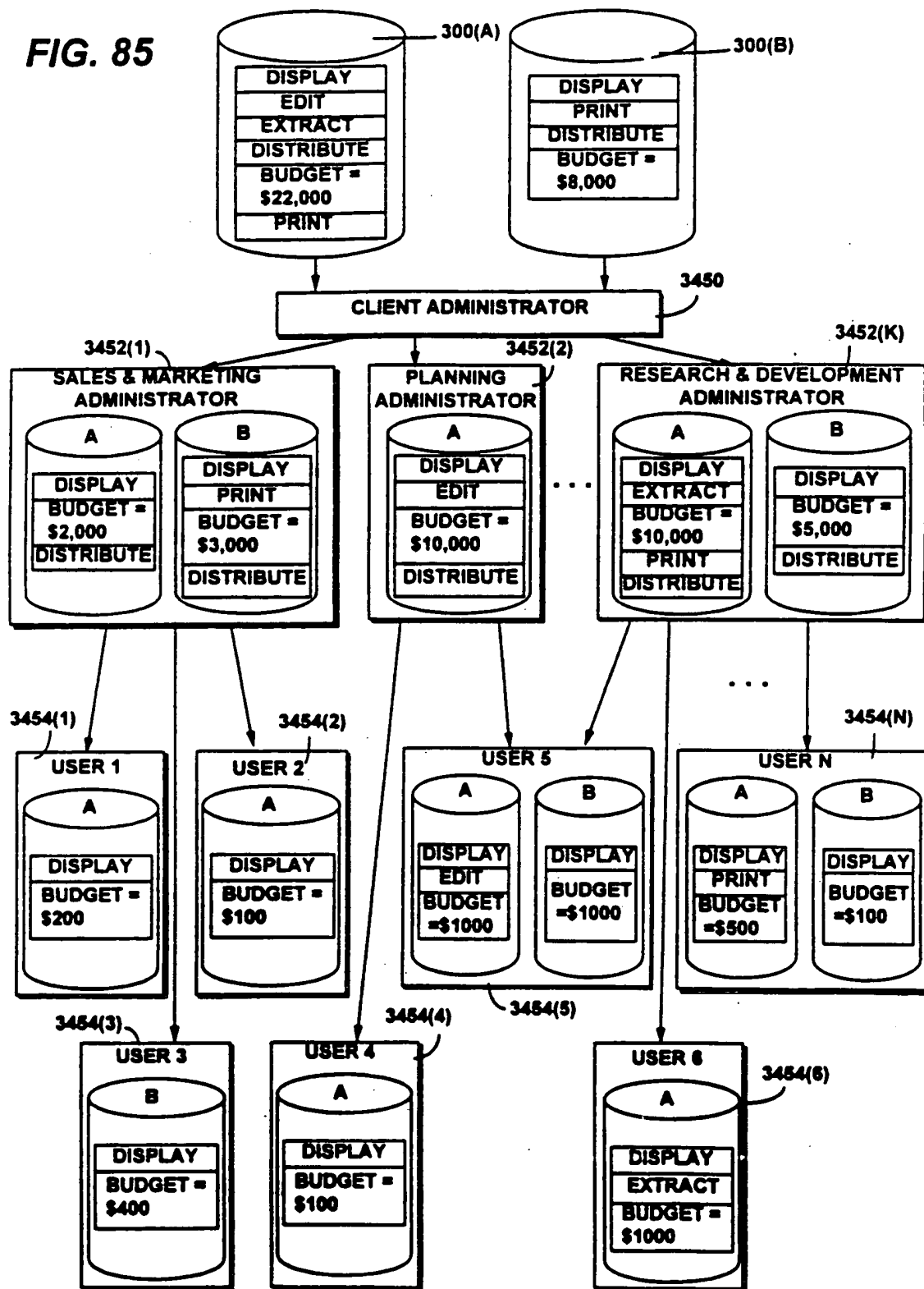


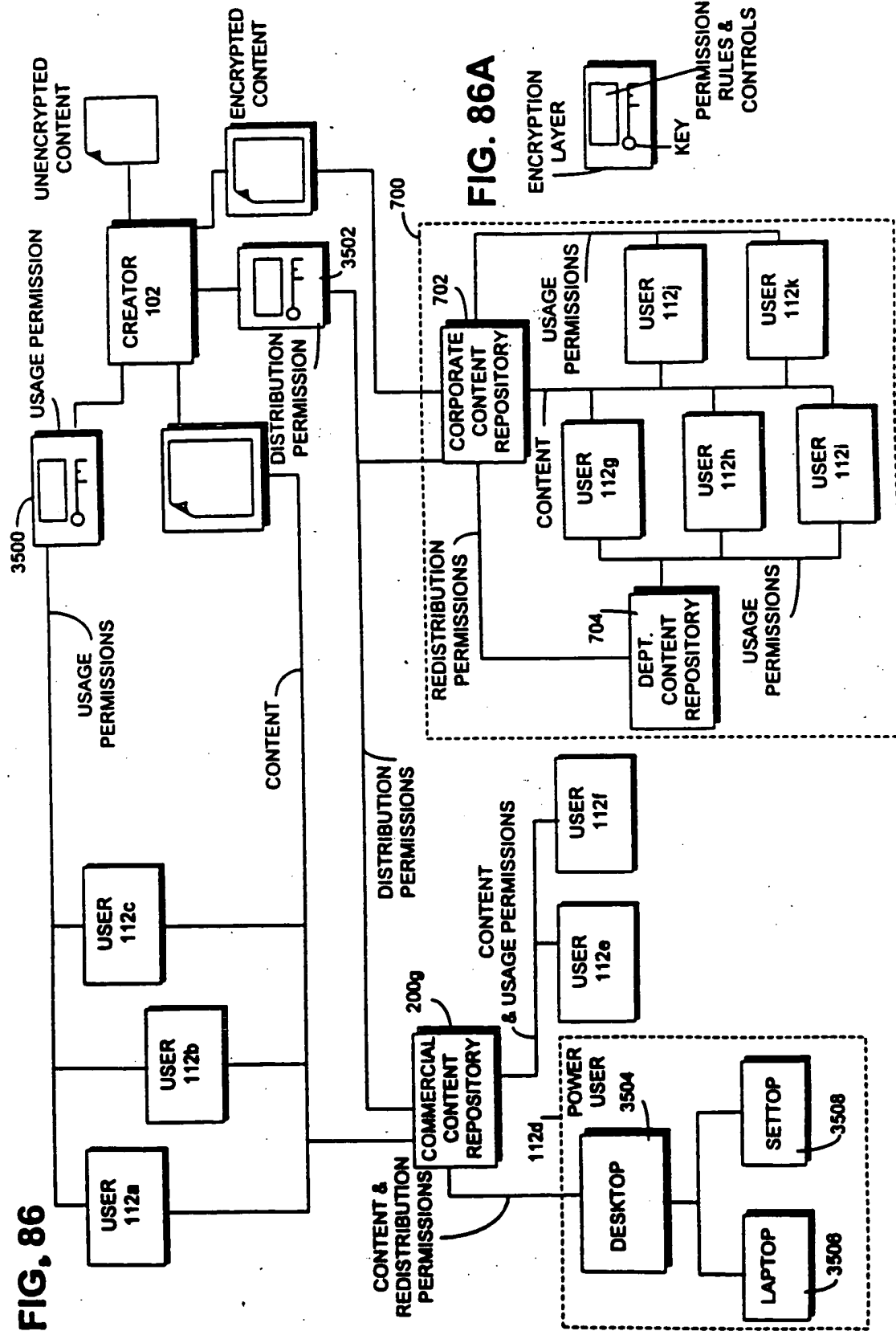
FIG. 85



09870801-060101



**FIG. 86**



**FIG. 86A**

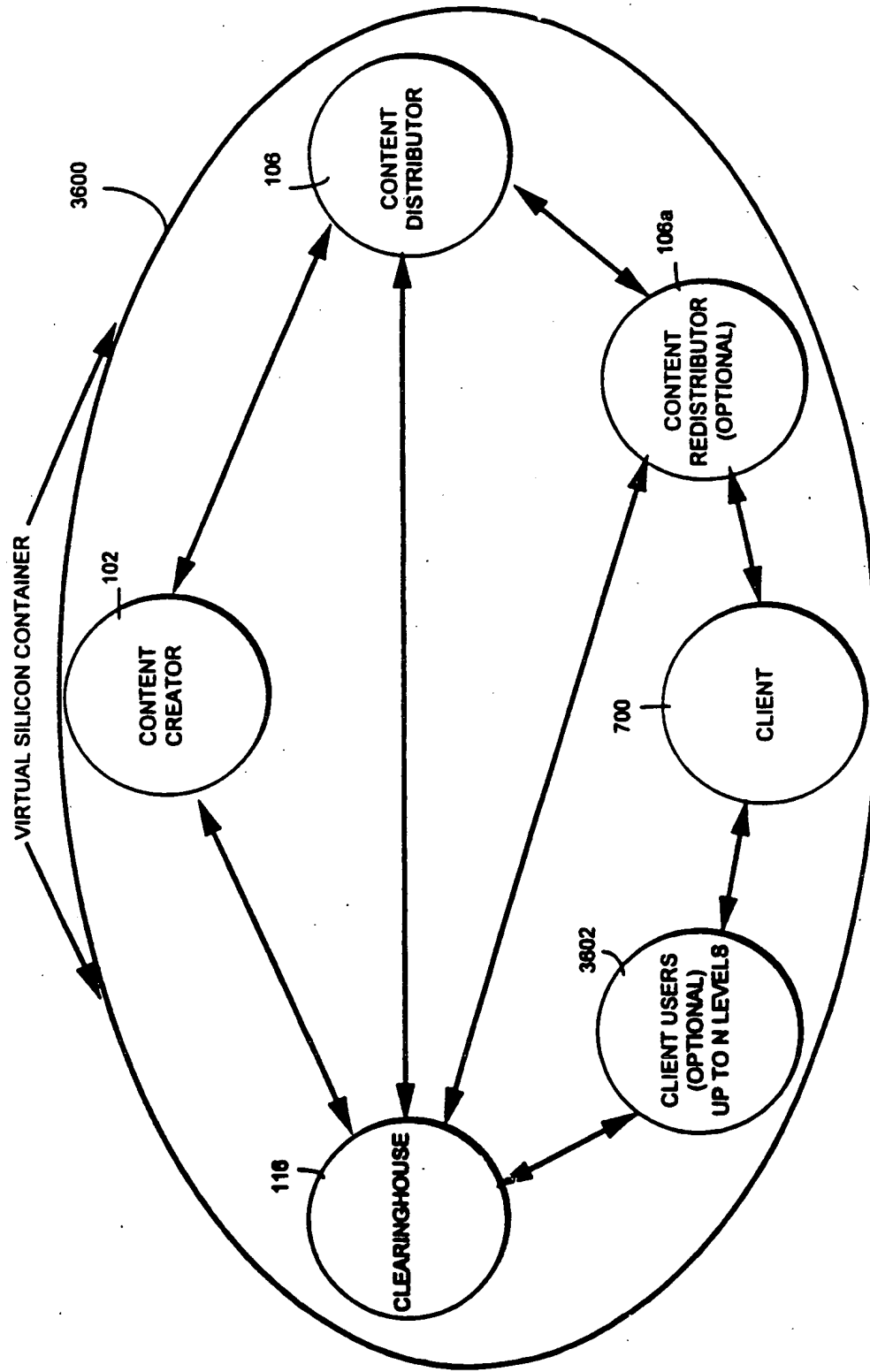


FIG. 87